

Prepared for
Colonial Terminals, Inc.
Savannah, GA

February 2019

FINAL
COMPLIANCE STATUS REPORT
COLONIAL TERMINALS, PLANT #2
373 NORTH LATHROP AVENUE
SAVANNAH, GEORGIA

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Groundwater Scientist Statement

I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that the groundwater portions of this report were prepared by myself and appropriately qualified subordinates working under my direction.



Robert Patchett, P.G.
Registration No. 1639

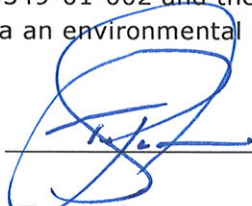


CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction in accordance with a system designated to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Based on my review of this report with respect to the risk reduction standards (RRS) of the Rules for Hazardous Site Response, Rule 391-3-19-.07, I have determined that the soil at the Colonial Terminals Plant 2 site in Savannah, Georgia, is in compliance with the non-residential risk reduction standards (i.e., Type 3 or 4 RRS) with the exception of the subsurface soil associated with Parcel 1-0549-01-002 and the groundwater throughout the site. Both of these exceptions will be managed via an environmental covenant restricting exposure and/or use of these media.

Signature:



Date:

February 28, 2019

Name:

T. Pratt Summers

Title:

Vice President, Operations

Company:

Colonial Terminals, Inc.

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ACRONYMS AND ABBREVIATIONS

11DCE	1,1-dichloroethene
12DCE	1,2-dichloroethene
AST	Aboveground Storage Tank
BOD	Biological Oxygen Demand
cm/s	Centimeters per Second
CAP	Corrective Action Plan
Colonial	Colonial Terminals, Plant #2
COPC	Constituent of Potential Concern
CSM	Conceptual Site Model
CSR	Compliance Status Report
EC	Environmental Covenant
ED	Exposure Domain
EPD	Georgia Environmental Protection Division
ERM	Environmental Resources Management
ft bgs	Feet Below Ground Surface
ft/d	Feet per Day
HSI	Hazardous Site Inventory
HSRA	Hazardous Site Response Act
MeCl	Methylene Chloride
mg/L	Milligrams per Liter
MMP	Monitoring and Maintenance Plan
NRC	National Response Center
PCE	Tetrachloroethylene
RP	Responsible Party
RRS	Risk Reduction Standards
SMP	Soil Management Plan
SVE	Solid Vapor Extraction
TCE	Trichloroethylene
UCL	Upper Confidence Limit
USEPA	United States Environmental Protection Agency
VC	Vinyl Chloride
VOC	Volatile Organic Compound
VRP	Georgia Voluntary Remediation Program

1. INTRODUCTION

This Final Compliance Status Report (CSR) has been prepared for the portion of the Colonial Terminals, Plant #2 (Colonial) property located at 373 North Lathrop Avenue, Savannah, Chatham County, Georgia (**Figure 1**), in accordance with the Georgia Voluntary Remediation Program (VRP). The approximately 78-acre property comprises five adjacent parcels of land identified by the Chatham County Board of Assessors as Tax Parcel IDs 1-0549-01-002 (three parcels have this ID, only one of which is part of the site), 1-0549-01-002A, and 1-0550-02-004. The highly industrialized property is bordered by the Savannah River to the northeast, and is improved with administrative buildings, warehouses, bulk aboveground storage tanks (ASTs) and silos, shipping docks, truck loading racks, pipe racks, and rail spurs. The previous site owners include Virginia-Carolina Chemical Company (now Exxon Mobil Corporation) and Swift Agricultural Chemicals Corporation (now BFEL Indemnitor, Inc.).

The subject property has been developed for industrial purposes since at least 1950, and was formerly used for the manufacture of fertilizers from the late 1950s through the late 1970s. Two sludge-settling ponds were historically used onsite for the capture of wastewater sludge associated with the fertilizer manufacturing operations. Since the late 1970s, the property has been used as a bulk storage facility for a variety of products including chlorinated solvents, petroleum compounds, food-grade products, and kaolin clay.

The property has been the subject of a number of previous environmental assessments that were conducted between 1984 and 2011. On June 29, 1994, three of the five parcels that comprise the property (**Figure 2**) were listed on the Georgia Environmental Protection Division's (EPD's) Hazardous Site Inventory (HSI, No. 10098) for a known release of metals and volatile organic compounds (VOCs) to the soil and groundwater. These three parcels (1-0549-01-002, 1-0549-01-002A, and 1-0550-02-004) are the subject of this final CSR and are referred to herein as the "site." A warranty deed with a legal description of the property and a tax plat map are included in **Appendix A**. Historical remedial activities at the site have consisted of soil excavation, soil vapor extraction, and chemical injections into the groundwater. Current activities associated with environmental impacts at the site are limited annual groundwater monitoring.

Colonial submitted a VRP Application for the site to the EPD in November 2012 (ENVIRON, 2012). The application was approved by EPD in May 2013. As described in the VRP Application, additional corrective action for soil, groundwater, and surface water at the site was not warranted based on current and reasonably anticipated future site use, the exposure pathways, and the comparison of existing data to site-specific cleanup standards. As agreed upon with EPD, annual groundwater sampling of seven shallow and three deeper monitoring wells was conducted for 2 years to identify and track potential future changes related to groundwater at the site. In addition, semi-annual surface water sampling was conducted for 3 years to monitor potential impacts to the Savannah River. The VRP Application is included as **Appendix B**.

An environmental covenant will be executed on the site in conformance with O.C.G.A. 44-61-1, et seq. (the "Georgia Uniform Environmental Covenants Act"). The covenant will specify that the land use of the site will remain industrial, no drinking water wells will be installed on the site, and any future plans for constructing new buildings on the site will be evaluated with respect to potential risks associated with vapor intrusion.

1.1 Site Description

The approximately 34.6-acre site is a bulk petroleum and chemical storage facility that is located along the Savannah River, near downtown Savannah. The site is developed with an approximately 60,000-square foot warehouse, approximately 50 ASTs, truck loading areas, a fueling station, and a loading dock for barges along the Savannah River. The ASTs are primarily located within earthen dikes. The land surface of the site consists of gravel-covered roads and parking areas, rail spurs, loading racks, earthen-bermed tank farms, and a dock along the Savannah River. The site is bordered to the north by the Savannah River, to the northwest by unlisted portions of the Colonial property, and by industrial properties to the southwest and southeast. Surface water at the site generally travels via sheet flow or by storm water ditches towards the Savannah River.

1.2 Site History

The site was formerly owned and operated by Virginia-Carolina Chemical Company and Swift Agricultural Chemicals Corporation for the manufacture of fertilizers from the late 1950s through the late 1970s. During that time, the site maintained two sludge-settling ponds and an adjacent sludge pile that have been documented as likely sources of impacts at the site, and historical fertilizer production facilities were present at various locations to the east side of the current rail yard (ERM, 2011). Since the late 1970s, Colonial has owned and operated the site for use as a bulk storage facility for various chemicals, petroleum, and kaolin clay. According to previous investigations and facility personnel, trichloroethylene (TCE) and tetrachloroethylene (PCE) were transferred from vessels to railcars and then to trucks in the area adjacent to the two former settling ponds and sludge pile from 1981 through 1985. Bulk storage of PCE and TCE at the site occurred in ASTs T-77 and T-78, located near the central northern end of the site, from 1985 through 1990, and in the adjacent ASTs 110 through 113 from 1991 through 2007 (TCE) and 2009 (PCE).

In addition, on December 26, 2018, a release of methanol occurred during railcar filling operations. A railcar was overfilled with methanol causing a release of 2,100 gallons to the ground in a limited area below the railcar. The release was reported to the National Response Center (NRC), Georgia EPD and Emergency Response, the United States Coast Guard (courtesy notification), and the Chatham County Emergency Management Agency through 911.

1.3 Summary of Previous Investigations

An investigation of the former settling ponds and sludge pile was conducted by the United States Environmental Protection Agency (USEPA) in 1984 and identified the presence of TCE at the site. Following an evaluation by the EPD in June 1994, the site was listed on the HSI for known releases of metals and VOCs to the soil and groundwater. In addition, methylene chloride (MeCl) and PCE and its degradation products 1,2-dichloroethene (12DCE); 1,1-dichloroethene (11DCE); and vinyl chloride (VC) were identified in soil and groundwater at the site during subsequent investigations. An initial CSR was submitted to EPD in 1999, and since that time numerous reports have been submitted for the site, including the following that were used in the completion of this CSR:

- Corrective Action Plan 4th Revision, prepared by Environmental Resources Management (ERM), dated October 24, 2005 (ERM, 2005).
- Corrective Action Plan for Volatile Organic Compounds, prepared by MACTEC Engineering and Consulting, dated August 2006 (MACTEC, 2006).
- Performance Standards Verification Report, prepared by Environmental Resources Management, dated January 15, 2007 (ERM, 2007a).

- Interim Design Report for VOC Corrective Action, prepared by MACTEC Engineering and Consulting, dated October 5, 2007 (MACTEC, 2007).
- Revised Corrective Action Plan for Volatile Organic Compounds, prepared by Environmental Resources Management, dated December 2007 (ERM, 2007b).
- Revised Corrective Action Plan for Volatile Organic Compounds, prepared by Environmental Resources Management, dated January 2009 (ERM, 2009a).
- Final Compliance Status Report for Metals in Soil, prepared by Environmental Resources Management, dated August 23, 2009 (ERM, 2009b).
- First Annual Groundwater CAER and Response to EPD Comment Letter, prepared by Environmental Resources Management, dated January 29, 2010 (ERM, 2010a).
- Revised Compliance Status Report for Metals in Soil, prepared by Environmental Resources Management, dated July 15, 2010 (ERM, 2010b).
- Second Corrective Action Effectiveness Report for Groundwater 2010, prepared by Environmental Resources Management, dated January 31, 2011 (ERM, 2011a).
- Revised Compliance Status Report for Metals in Soil, prepared by Environmental Resources Management, dated August 2011 (ERM, 2011).
- Voluntary Remediation Plan Application, prepared by ENVIRON, dated November 2012 (ENVIRON, 2012).

Corrective actions for soil and groundwater at the site have been implemented since approximately 2005. A summary of these actions is provided in the following sections.

1.4 Summary of Corrective Actions – Soil

Corrective action of the soil at the site commenced in 2007 and includes the removal and treatment of impacted soil as well as a soil vapor extraction (SVE) system. A summary of the removal actions that have been undertaken at the site is provided below, and the excavation and SVE areas are illustrated in **Figure 3**:

- Approximately 23,415 tons of lead and/or arsenic-impacted soils were removed from eight distinct areas of the site in October through December 2007.
- Approximately 812 tons of VOC-impacted soils were removed adjacent to Tank T-88 at the southeast portion of the site in December 2007.
- Approximately 38 tons of soils were removed from the area surrounding the historical soil boring GP-07-06 in February and March 2009.

In addition to the soil removal activities, an SVE system was installed in 2009 for the purpose of addressing VOC impacts in the vicinity of Tank 75 through Tank 78 (**Figure 3**). The SVE system consists of a gallery of six SVE extraction wells, a vacuum blower, control panel, moisture knockout tank, and emission controls (activated carbon). The SVE system operated from 2009 to 2012.

In association with the methanol release in 2018, remediation efforts were initiated after the release was stopped. The pooled product was recovered and placed into drums for recycling/disposal offsite. Impacted soil and gravel were also collected and placed into drums for offsite disposal. After the removal actions were completed, Colonial collected samples from the bottom of the excavated areas for methanol analysis. The results indicated that methanol was still present in the soil beneath the excavated areas. Complete excavation of the remaining impacted soil was not feasible due to the nearby existing rail track and associated piping supports, and

further excavations would possibly undermine the existing infrastructure. Furthermore, the release was limited to a very small on-site area. A groundwater monitoring well was installed at the release area and the analytical results for the sample from the well were non-detect for methanol (therefore, no corrective action was conducted).

1.5 Summary of Corrective Actions – Groundwater

In order to address the metals and VOC impacts to the groundwater, a chemical injection program was proposed as part of the 2009 Revised Corrective Action Plan (CAP) for VOCs and was implemented in February through April 2009. A total of 250 injection wells were installed at the site, and more than 150,000 gallons of solution containing persulfate, lime, and caustic were injected into the groundwater. In addition, a network of 34 groundwater monitoring wells (**Figure 4**) were sampled annually from 2008 through 2014 for VOCs, metals, and other monitoring parameters (to gauge the effectiveness of the chemical injections).

2. GEOLOGIC SETTING

The site is located in the Barrier Island Sequence District of the Coastal Plain Physiographic Province of Georgia. Regional soils are characterized by Pleistocene and Holocene barrier island deposits and marsh and lagoon deposits. Pleistocene sea levels advanced and retreated several times over the Coastal Plain to form a step-like progression of decreasing elevation toward the sea (Clark and Zisa, 1976). The area during the time of the former, higher sea levels existed as barrier island-salt marsh environments similar to the present coast. The changes in sea level left shoreline deposit complexes parallel to the present coastline, composed predominantly of unconsolidated sand and clayey sand deposited during the former high sea levels.

2.1 Regional Geology

The regional geology has been characterized as Coastal Plain strata consisting of unconsolidated to semi-consolidated layers of sand and clay, and semi-consolidated to very dense layers of limestone and dolomite (Clarke et al, 1990). These sediments range in age from the late Cretaceous to Holocene periods. The strata generally strike southwest and northeast, and dip and gradually thicken to the southeast.

Based on historical site assessment activities, the site geology from land surface to approximately 2 feet below ground surface (ft bgs) consists of sequences of sands, which are underlain by stiff sandy clays that extend to approximately 8 to 10 ft bgs. Clayey sands with clay stringers are present from approximately 10 to 34 ft bgs, below which clay and silt is present to approximately 80 ft bgs. The cross-section transects are illustrated in **Figure 5**, and the cross sections are presented in **Figure 6**.

2.2 Site Geology

The Coastal Plain is underlain by multiple aquifers. In the vicinity of the site, the surficial aquifer consists of the Satilla Formation (Payne, Rumman and Clarke, 2005). Beneath the surficial aquifer are the upper and lower Brunswick aquifers, which consist of slightly phosphatic and dolomitic quartz sands and clay confining units. The Brunswick aquifer system is approximately 80 feet thick in the region of the site and has a higher percentage of low permeability, clayey deposits in the Savannah area. The underlying Upper Floridan aquifer, which consists of the Ocala Limestone, is the principal source of water in the coastal area (Clarke et al, 1990).

2.2.1 Site Hydrogeology

Due to the proximity of the site to the Savannah River and Atlantic Ocean, the surficial/shallow groundwater at the site is influenced by tidal activity, and the depth to groundwater at the site typically ranges from approximately 3 to 12 ft bgs. Additionally, the shallow groundwater at the site has a high saline content due to tidal influence and, as such, the groundwater in the shallow surficial aquifer is not potable.

Slug tests were performed in three wells (MW-16, MW-18, and TW-28) on May 25 and 26, 2006, for the purpose of evaluating the hydraulic conductivity of the shallow aquifer. Based on the results of the tests, the average hydraulic conductivity of the shallow surficial aquifer at the site is approximately 3.05×10^{-3} centimeters per second (cm/s). Based on the site gradient, and assuming an effective porosity of 20 percent, the groundwater flow velocity is estimated to range between 0.1 feet per day (ft/d) and 0.2 ft/d.

2.2.2 Groundwater Flow Direction

The most recent complete round of water level measurements was collected on August 31 and September 1, 2010, and ranged from 0.21 to 6.09 ft amsl. A summary of the historic depth-to-groundwater measurements and corresponding groundwater elevation data is presented in **Table 1**. The 2010 groundwater elevation data were used to prepare a groundwater potentiometric map in order to estimate groundwater flow direction for the surficial aquifer (**Figure 7**).

Based on the potentiometric map and groundwater elevation data, groundwater flow at the site is generally to the northeast and is flowing with an average gradient of 0.0015 feet/foot from the shallow aquifer into the Savannah River. Additionally, the average hydraulic gradient for the deep surficial aquifer is -0.0130 feet/foot, indicating that recharge to the deep surficial aquifer from the river is occurring.

3. SOIL

3.1 Summary of Activities

The site has been the subject of extensive soil sampling from 1999 through 2007 as part of investigation and remediation efforts. Based on the results of the soil sampling activities, and in coordination with EPD, more than 23,000 tons of lead- and arsenic-impacted soil and approximately 850 tons of VOC-impacted soil have been excavated and removed from the site (see Section 3.1.2). In addition, Colonial installed and operated an SVE system to address localized VOC impacts in the area of Tanks T-77 and T-78.

The concentrations of regulated substances that currently exist in the soil at the site are represented in **Table 2** and **Table 3**, and illustrated in **Figure 8**. VOC and metal impacts in the soil at the site have been delineated. The lone exception to this is for lead and arsenic at the southeastern site boundary, where attempts to get access to the adjacent property have not been successful. Colonial has repeatedly requested and been denied access to this property (as detailed in historical correspondence with EPD).

3.1.1 Sampling Activities

The soil samples collected in April and August 2007 (GP-07-01 through GP-07-22) completed the delineation of VOC impacts in the soil to the north and west of the site. Following those efforts, additional soil borings (HA-07-01 through HA-07-09) were installed by Tank T-88 in October and November 2007 to complete the delineation of VOC impacts in the soil at the site. As presented in the Revised Corrective Action Plan for Volatile Organic Compounds, the results of this sampling “confirm that soil delineation is complete” for VOCs (ERM, 2009).

Soil sampling activities completed in 2006 and 2007 completed the delineation of inorganic (metals) constituents associated with the site. In 2006, United Consulting collected 203 soil samples from within a 1,200-foot long Westside Flood Relief Project and analyzed the samples for metals (United Consulting, 2006). In 2007, ERM collected 140 soil samples in conjunction with a site wide delineation/excavation project. These samples were analyzed for lead and arsenic (ERM, 2011). Both of these efforts are described below.

3.1.2 Remediation Activities

Westside Flood Relief Project

The City of Savannah constructed the Westside Storm Water Outfall within a permanent easement that crosses property owned by Colonial Terminals and Savannah Steel Terminals, LLC. The Colonial property easement consists of a 1,207-foot long utility easement that varied in width from 27 to 50 feet, some portions of which contained soil that was impacted by lead and arsenic. Within this easement, the City constructed a cast-in-place, double, 8-foot by 7-foot box culvert and a 90-foot by 24-foot cast-in-place concrete terminal structure.

Initial excavation activities at the site began February 22, 2005, and the excavation was completed on January 24, 2006 (the area excavated by the City of Savannah is shown on **Figure 3**). During the project, a total of 48,382 tons of soil was excavated and, after being characterized, was removed from the site and appropriately disposed. More information regarding the Westside Flood Relief Project is presented in **Appendix C** (Westside Flood Relief Project Construction CSR, United, 2006).

Soil Excavation

Further corrective action of the soil at the site commenced in 2007 and included the removal and treatment of soil impacted by lead, arsenic, and VOCs. A summary of the removal actions that were undertaken during corrective actions is provided below, and the excavation areas are illustrated in **Figure 3**:

- Approximately 23,415 tons of lead- and/or arsenic-impacted soils were removed from eight distinct areas of the site in October through December 2007.
- Approximately 812 tons of VOC-impacted soils were removed adjacent to Tank T-88 at the southeast portion of the site in December 2007
- Approximately 38 tons of soils were removed from the area surrounding the historical soil boring GP-07-06 in February and March 2009.
- A total of 50 tons of soil was excavated from Area D in 2010.

These corrective action activities are described in detail in the Compliance Status Report for Metals in Soil (ERM, 2011) and is presented as **Appendix D**.

Soil Vapor Extraction

An SVE system was installed at the site in 2009 and operated until 2012 to treat soil impacted with VOCs exceeding risk reduction standards (RRS) in the vicinity of Tanks 75 through 78 (the Tank Farm). The SVE system consisted of six soil vapor extraction wells screened between 4 and 9 feet below ground surface (bgs). The wells were connected to a Regenair SVE blower capable of 50 standard cubic feet per minute (scfm) at 5 inches of mercury vacuum, a Regenair blower liquid separator, and two 140-pound granular activated carbon (GAC) air purification canisters.

3.2 Current Nature and Extent of Impacts

The nature and extent of soil impacts remaining at the site are well defined and limited to the east side of the site under and adjacent to the railroad tracks.

4. GROUNDWATER

4.1 Summary of Activities

For the purpose of assessing VOC and metals impacts in the groundwater, a network of 34 groundwater monitoring wells was installed (**Figure 3**) and sampled annually from 2008 through 2014 for VOCs, metals, and various other parameters. Based on the results of the most recent groundwater sampling event and the historical data (**Table 4** and **Table 5**), delineation in the groundwater has been achieved for VOCs. In addition, metal impacts in the groundwater have been delineated, with the lone exception of arsenic and lead across the southeastern site boundary. Despite repeated attempts, Colonial has not received access to this adjacent property.

4.1.1 Sampling Activities

A network of 34 groundwater monitoring wells have been sampled annually from 2008 through 2010 for VOCs and metals. In addition, groundwater samples have been collected from 32 temporary wells during that time period. Additional annual sampling activities continued at select wells through 2014 as part of the approved VRP program. A summary of the groundwater data is presented on **Table 4** and **Table 5**.

4.1.2 Remediation Activities

In order to address metals and VOC impacts to the groundwater, a chemical injection program was proposed as part of the 2009 Revised Corrective Action Plan for VOCs and was implemented in February through April 2009. A total of 250 injection wells were installed at the site, and more than 150,000 gallons of solution containing persulfate, lime, and caustic were injected into the groundwater.

4.2 Current Nature and Extent of Impacts

The nature and extent of groundwater impacts remaining at the site are well defined. The constituents of concern include chlorinated VOCs and metals. Data collected during more than 8 years of groundwater monitoring indicate that groundwater concentrations at the site are stable or decreasing. The presence of chlorinated hydrocarbon breakdown products (e.g., dichloroethene and vinyl chloride) in each of the impacted wells indicates that biological degradation (natural attenuation) is occurring at the site.

5. SURFACE WATER

5.1 Summary of Activities

Surface water samples from the Savannah River were collected seven times from 2010 through 2016. The data indicate that the surface water adjacent to the site has not been impacted by site activities.

5.1.1 Sampling Activities

Surface water samples from the Savannah River were collected from three locations adjacent to the site. The most recent, and therefore the most representative, data indicate that the surface water at the site has not been impacted (**Table 6**). The locations of the surface water sampling locations are illustrated in **Figure 4**.

5.1.2 Biological Oxygen Demand Evaluation

Based on comments received from the EPD in 2016, Colonial evaluated concerns that the VOC impacts in the groundwater at the site were causing an increase in biological oxygen demand (BOD) in the Savannah River. Based on the redox chemistry at the site, aerobic conditions exist in the shallow aquifer, as measured during the years of groundwater sampling at the site. Specifically, the redox chemistry measured in the shallow aquifer monitoring wells at the site shows a strongly positive redox potential (anaerobic conditions would be indicated by a negative redox potential). The data show that none of the shallow aquifer monitoring wells indicate a negative redox potential. Since PCE and TCE are stable under aerobic groundwater conditions and will not naturally degrade, no oxygen demand is being exerted by these compounds in the shallow groundwater at the site. Nor will there be any oxygen demand created by these compounds at the Savannah River where conditions in the river are also highly aerobic (aerobic conditions are indicated by a dissolved oxygen concentration greater than 1.5 milligrams per liter (mg/L), while the Savannah River dissolved oxygen standard is a daily average of 5.0 mg/L, no less than 4.0 mg/L). Based on this information, EPD agreed that further evaluation was not warranted with respect to BOD at the site.

5.2 Current Nature and Extent of Impacts

Surface water sampling results indicate that the surface water is not impacted by site activities.

6. RISK REDUCTION STANDARDS

The site and surrounding properties are used for non-residential purpose. On this basis, Type 3 and Type 4 Risk Reduction Standards (RRS) for the site were submitted in the 2012 VRP Application, and revised Type 4 RRS were submitted in a comment response letter to the EPD on November 10, 2014. As agreed upon with EPD, the RRS for constituents of potential concern (COPCs) in surface soil were developed to be protective of commercial/industrial, utility, and construction workers at the site via direct contact, and the RRS in the subsurface soil were developed to be protective of utility and construction workers via direct contact. A site conceptual model depicting potential contaminant migration routes is presented in **Figure 9**, and a conceptual site model (CSM) summarizing the potentially complete exposure pathways is presented in **Figure 10**.

Based on previous communication and agreements between the responsible parties (RPs) and EPD, the receptors and exposure pathways for which risks were to be evaluated are represented in the CSM, along with the following site conditions:

- The use of one exposure domain (ED) for surface soil (0 to 2 feet below ground surface);
- Development of Type 2 RRS is not necessary provided that the Environmental Covenant (EC) for the site specifies non-residential use for the site;
- The EC will include language that limits construction worker scenarios to 90 days of exposure to subsurface soil;
- Trespasser scenarios do not need to be evaluated for the site because the commercial/industrial worker exposure scenario is considered more conservative and, therefore, are protective of a trespasser; and,
- Exposure to groundwater does not constitute a complete exposure pathway. Therefore, leaching to groundwater is not a required component of the site-specific RRS for soil.
- As discussed in **Section 6.4**, an ecological risk evaluation associated with potentially-impacted media was limited to aquatic organisms, particularly fish, in the adjacent Savannah River. This ecological risk evaluation is included as Appendix D of the VRP Application presented in **Appendix B**.

6.1 Soil RRS

As part of the VRP Application (Environ 2012), Type 3 and Type 4 RRS for soil were calculated in accordance with EPD guidance (EPD 2009). Per EPD's request, the Type 4 RRS for a construction worker were revised in November 2014 (Environ 2014) to account for an exposure frequency of 90 days per year. The derivation of these RRS can be found in the 2012 VRP Application (**Appendix B**) and the November 10, 2014 comment response letter to the EPD (**Appendix E**). A comparison of the maximum detected concentrations to the EPD-approved RRS for the site are provided in **Table 7**. As shown, arsenic and lead were the only COPCs with concentrations in any specific location that exceeded the Type 4 RRS.

To further evaluate arsenic and lead in the soil, an area averaging approach was used for the surface soil (versus a point-by-point comparison). The entire site is considered to comprise one exposure domain for surface soil and 95 percent Upper Confidence Limits (UCLs) on the arithmetic mean was calculated using ProUCL 5.1 (USEPA, 2016). The result of the area averaging indicated that arsenic and lead impacts in the surface soil meet Type 4 RRS (**Table 8**). The area-averaging calculations are provided in **Appendix F**.

For arsenic and lead in the subsurface soil, EPD required the use of a point-by-point method. Based on the comparison of the maximum detected concentrations in the soil to the Type 4 RRS (**Table 9**), the only sampling locations that exceed the Type 4 RRS for soil are:

- A5-Floor: Arsenic (5 feet bgs)
- SB-28: Arsenic (3-5 feet bgs and 6-8 feet bgs)
- SB-37: Lead (3-5 feet bgs)
- SB-38: Lead (5-6.5 feet bgs)
- SB-44: Arsenic (5 feet bgs)
- B-SB-48: Arsenic and Lead (2-5 feet bgs)
- B-SB-53: Arsenic and Lead (2-5 feet bgs)
- SB-56: Arsenic (4-6 feet bgs)
- Station 12+00: Arsenic (6-8 feet bgs)
- Station 21+00: Arsenic (6-8 feet bgs)

Therefore, with agreement from the EPD (EPD, 2017), exposure to subsurface soil will be addressed and managed through a site-specific EC and associated land disturbance requirements described in the Soil Management Plan (SMP, **Attachment B**) that will limit exposure of receptors to the subsurface soil.

6.2 Groundwater RRS and Surface Water

Groundwater RRS were not developed because there is no direct exposure to groundwater via ingestion or inhalation at or within 1,000 feet of the site. In order to ensure that potential exposure pathways related to groundwater continue to be controlled, a Groundwater Monitoring and Maintenance Plan (MMP) has been developed and is included as **Attachment A**.

In addition, groundwater modeling presented in the 2012 VRP Application predicted that COPCs in the groundwater were not discharging to the Savannah River at detectible levels, and the analytical data from surface water samples collected from the river in direct proximity to the facility have confirmed this prediction.

6.3 Vapor Intrusion

Based on a comparison of the VOC maximum detected concentrations and 95 percent UCLs in soil and groundwater with vapor intrusion criteria (Table 1 and Table 2 in ENVIRON, 2012), two locations were identified at the site (GP-07-04 and GP-07-06, as presented in Figure 15 of the VRP Application) that might be associated with unacceptable risks associated with vapor intrusion exposures. This information is presented in the 2012 VRP application and the November 2013 Semi-Annual Status Report (Environ 2013). However, because these locations are not under or in immediate proximity to current site structures at which workers might be exposed to indoor air, RRS were not derived for the vapor intrusion pathway. Location-specific vapor intrusion risks will be assessed, and mitigation measures will be implemented, if necessary, prior to or during future construction of inhabited structures at the site (to be described further in the EC).

6.4 Ecological Risk Evaluation

Because the site is almost completely covered by structures, concrete, gravel and/or asphalt, and because the site is in a highly industrialized area, the ecological risk evaluation for the site was limited to assessing risks to aquatic organisms, particularly fish, in the adjacent Savannah River. The ecological risk evaluation concluded that the regulated substances in the groundwater at the site that could potentially discharge to the surface water do not pose an unacceptable risk to aquatic receptors. The ecological risk evaluation is included as Appendix D of the VRP Application presented in **Appendix B**.

7. SUMMARY AND CONCLUSIONS

Based on the available data and the corrective actions that have been completed at the site, the soil and groundwater impacts at the site have been delineated. In addition, the surface soil at the site meets the EPD-approved Type 4 non-residential RRS in all three parcels. The subsurface soil at parcel 1-0549-01-002A and parcel 1-0550-02-004 that comprise the site also meets the Type 4 non-residential RRS. The subsurface soil at parcel 1-0549-01-002 does not meet the Type 4 non-residential RRS and will be managed as described in the Soil Management Plan (**Attachment B**) and as provided for in an Environmental Covenant.

The groundwater associated with the site does not meet EPD-approved RRS; therefore, the groundwater beneath the entire site will be monitored and managed as described in the Monitoring and Maintenance Plan (**Attachment A**) and as provided for in an Environmental Covenant (including consideration of vapor intrusion for new construction). Therefore, the site is eligible to be delisted from the HSI.

8. REFERENCES

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TABLES

**Table 1 - Summary of Groundwater Elevations
Final Compliance Status Report
Colonial Terminals
Savannah, Georgia**

Well ID	Date	TOC Elevation (feet AMSL)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
MW-01	8/11/2008	10.80	6.09	4.71
	8/31/2009	10.80	3.91	6.89
	8/30/2010	9.64	4.50	5.14
	12/13/2013	9.64	6.71	2.93
	10/30/2014	9.64	6.71	2.93
MW-03	8/31/2009	11.64	7.03	4.61
	8/30/2010	10.35	7.52	2.83
MW-06R	8/11/2008	11.41	9.35	2.06
	8/31/2009	11.41	8.03	3.38
	8/31/2010	11.41	8.62	2.79
	12/12/2013	11.41	9.63	1.78
	10/30/2014	11.41	9.63	1.78
MW-08	8/31/2009	13.34	9.78	3.56
	8/31/2010	12.17	9.88	2.29
	12/12/2013	12.17	11.52	0.65
	10/30/2014	12.17	11.52	0.65
MW-09D	8/11/2008	13.36	13.48	-0.12
	8/31/2009	13.36	9.31	4.05
	9/1/2010	11.97	10.20	1.77
	12/11/2013	11.97	10.50	1.47
	10/30/2014	11.97	9.66	2.31
MW-11R	8/31/2009	12.78	11.52	1.26
	9/1/2010	11.64	9.92	1.72
	12/11/2013	11.64	12.00	-0.36
	10/30/2014	11.64	9.62	2.02
MW-12D	8/31/2009	12.33	12.52	-0.19
	8/30/2010	12.33	9.98	2.35
	12/12/2013	12.33	12.32	0.01
	10/30/2014	12.33	N/A	N/A
MW-12R	8/31/2010	11.80	9.95	1.85
	12/12/2013	11.80	10.73	1.07
	10/30/2014	11.80	10.16	1.64
MW-16	8/31/2009	12.32	10.69	1.63
	9/1/2010	11.08	9.38	1.70
MW-18	8/31/2009	13.82	12.15	1.67
	9/1/2010	12.64	11.65	0.99
	12/11/2013	12.64	6.94	5.70
MW-19	8/31/2009	13.66	12.73	0.93
	9/1/2010	12.53	11.52	1.01
MW-20	8/31/2009	12.15	7.98	4.17
	8/31/2010	12.15	8.61	3.54
MW-21	8/31/2009	14.05	7.72	6.33
	9/1/2010	12.27	9.56	2.71
MW-22	8/31/2009	16.68	12.37	4.31
	9/1/2010	14.86	13.50	1.36

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Well ID	Date	TOC Elevation (feet AMSL)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
MW-23	8/31/2009	17.17	13.12	4.05
	9/1/2010	15.39	13.99	1.40
MW-24	8/31/2009	14.44	10.90	3.54
	9/1/2010	12.71	11.55	1.16
	12/11/2013	12.71	11.63	1.08
	10/30/2014	12.71	11.10	1.61
MW-25	8/31/2009	12.89	9.29	3.60
	9/2/2010	11.21	10.63	0.58
	12/11/2013	11.21	10.69	0.52
	10/30/2014	11.21	9.59	1.62
MW-26	8/31/2009	12.90	9.25	3.65
	9/2/2010	11.26	11.05	0.21
	12/11/2013	11.26	10.43	0.83
MW-27	8/31/2009	10.81	2.45	8.36
	9/1/2010	9.10	3.01	6.09
MW-28	8/31/2009	14.95	10.71	4.24
	9/1/2010	13.08	12.02	1.06
	12/13/2013	13.08	12.43	0.65
MW-29	8/11/2008	11.93	11.45	0.48
	8/31/2009	11.93	11.31	0.62
	9/1/2010	11.93	10.66	1.27
	12/11/2013	11.93	11.11	0.82
MW-30	8/11/2008	12.77	11.47	1.30
	8/31/2009	12.77	10.32	2.45
	8/31/2010	12.77	10.98	1.79
	12/12/2013	12.77	11.46	1.31
	10/30/2014	12.77	11.11	1.66
MW-31	8/11/2008	13.30	11.68	1.62
	8/31/2009	13.30	10.99	2.31
	8/31/2010	13.30	10.40	2.90
MW-32	8/11/2008	10.42	9.33	1.09
	8/31/2009	10.42	6.99	3.43
	9/1/2010	10.42	8.83	1.59
MW-33	8/11/2008	12.02	9.66	2.36
	8/31/2009	12.02	7.39	4.63
	8/31/2010	12.02	8.88	3.14
MW-34	8/11/2008	11.23	8.86	2.37
	8/31/2010	11.23	7.95	3.28
	12/12/2013	11.23	9.92	1.31
	10/30/2014	11.23	9.00	2.23
MW-35	8/11/2008	11.40	9.28	2.12
	8/31/2009	11.40	7.31	4.09
	8/31/2010	11.40	8.98	2.42
MW-36D	8/11/2008	11.54	9.35	2.19
	8/31/2009	11.54	8.00	3.54
	8/31/2010	11.54	8.75	2.79

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Colonial Terminals
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Well ID	Date	TOC Elevation (feet AMSL)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
MW-101D	4/15/2014	NS	11.00	N/A
	10/30/2014	NS	19.74	N/A
MW-102D	4/16/2014	NS	11.00	N/A
	10/30/2014	NS	15.63	N/A
TW-01	12/11/2013	N/A	11.65	N/A
TW-03	12/11/2013	N/A	12.02	N/A
TW-04	12/11/2013	N/A	11.01	N/A
TW-09	8/11/2008	12.04	10.56	1.48
	8/31/2009	12.04	9.78	2.26
	8/30/2010	12.04	9.71	2.33
TW-12	8/11/2008	12.55	11.26	1.29
	8/31/2009	12.55	10.68	1.87
	9/1/2010	12.55	10.82	1.73
TW-13	8/11/2008	14.15	12.60	1.55
	8/31/2009	14.15	11.91	2.24
	8/31/2010	14.15	12.32	1.83
	12/13/2013	14.15	N/A	N/A
TW-25	8/31/2009	11.30	8.13	3.17
	8/31/2010	11.30	8.78	2.52
	12/12/2013	11.30	9.69	1.61
	10/30/2014	11.3	9.23	2.07
TW-27	8/31/2009	12.22	7.69	4.53
	8/31/2010	12.22	9.57	2.65
	12/12/2013	12.22	10.39	1.83
TW-29	8/31/2009	11.80	7.38	4.42
	8/31/2010	11.80	9.12	2.68
	12/12/2013	11.80	10.19	1.61
	10/30/2014	11.8	9.60	2.20
TW-31	12/12/2013	N/A	8.91	N/A
TW-32	12/13/2013	N/A	9.73	N/A

Notes:

AMSL - above mean sea level

BTOC - below top of casing

N/A - not available

NS - well not surveyed

TOC - top of casing

Table 2 - Summary of Soil Analytical Data - VOCs
Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

<i>Analyte</i>			1,1-DCE	2,4-Dinitro- toluene	cis-1,2-DCE	Methylene Chloride	PCE	trans-1,2-DCE	TCE	Vinyl Chloride
<i>Unit</i>			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sample Location	Depth (ft bgs)	Date Sampled								
GP-01-05	15	8/17/2005	< 0.1	-	0.461	-	4.18	0.013	0.434	0.06
	25	8/17/2005	0.006	-	0.089	-	0.265	< 0.001	0.07	0.003
GP-02-05	10	8/17/2005	< 0.001	-	0.001	-	0.001	< 0.001	0.001	< 0.001
	20	8/17/2005	0.052	-	0.126	-	0.143	0.006	0.035	0.033
GP-03-05	15	8/17/2005	0.02	-	0.009	-	0.323	< 0.001	0.11	< 0.001
	20	8/17/2005	0.011	-	0.005	-	0.656	< 0.001	0.057	< 0.001
GP-04-05	10	8/17/2005	0.096	-	0.59	-	1.6	0.007	0.313	0.065
	15	8/17/2005	0.035	-	0.315	-	4.87	0.002	0.234	0.023
GP-05-05	10	8/18/2005	0.113	-	0.948	-	7.57	0.01	0.729	0.055
	15	8/18/2005	0.014	-	0.254	-	0.707	0.002	0.214	0.014
GP-06-05	10	8/18/2005	0.116	-	1.22	-	3.81	0.01	0.895	0.014
	15	8/18/2005	0.036	-	0.715	-	3.06	< 0.002	0.546	0.006
GP-07-01	4	4/23/2007	< 0.25	-	< 0.25	< 0.25	2.7	< 0.25	0.27	< 0.25
GP-07-02	2	4/23/2007	< 0.25	-	< 0.25	< 0.25	8.3	< 0.25	0.47	< 0.25
GP-07-03	3	4/24/2007	< 0.0053	-	< 0.0053	0.011	< 0.0053	< 0.0053	< 0.0053	< 0.0053
GP-07-04	3	4/24/2007	< 2.2	-	< 2.2	< 2.2	400	< 2.2	19	< 2.2
GP-07-05	3	4/24/2007	< 0.21	-	< 0.21	< 0.211	4.9	< 0.21	< 0.21	< 0.21
GP-07-06	3	4/25/2007	< 0.35	-	0.66	< 0.35	0.35	< 0.35	6.3	< 0.35
GP-07-07	2	4/26/2007	< 0.0062	-	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062
GP-07-08	3	8/15/2007	< 0.0054	-	< 0.0054	< 0.011	< 0.0054	< 0.0054	< 0.0054	< 0.0054
GP-07-09	3	8/15/2007	< 0.0051	-	< 0.0051	< 0.01	< 0.0051	< 0.0051	< 0.0051	< 0.0051
GP-07-10	3	8/15/2007	< 0.0047	-	0.037	< 0.0094	0.33	< 0.0047	0.018	< 0.0047
GP-07-11	3	8/15/2007	< 0.0041	-	0.022	< 0.0082	0.22	< 0.0041	0.0058	< 0.0041
GP-07-12	3	8/15/2007	< 0.0053	-	< 0.0053	< 0.011	0.031	< 0.0053	< 0.0053	< 0.0053
GP-07-13	2	8/15/2007	< 0.005	-	< 0.005	< 0.01	< 0.005	< 0.005	0.38	< 0.005
GP-07-14	2	8/15/2007	< 0.0074	-	< 0.0074	< 0.015	0.034	< 0.0074	< 0.0074	< 0.0074
GP-07-15	2	8/15/2007	< 0.0046	-	< 0.0046	< 0.0092	< 0.0046	< 0.0046	< 0.0046	< 0.0046
GP-07-16	3	8/15/2007	< 0.0042	-	< 0.0042	< 0.0084	0.27	< 0.0042	0.0091	< 0.0042
GP-07-17	3	8/16/2007	< 0.18	-	< 0.18	< 0.9	1.8	< 0.18	< 0.18	< 0.18
GP-07-18	3	8/16/2007	< 0.0043	-	0.0092	< 0.0086	< 0.0043	< 0.0043	< 0.0043	0.0086
GP-07-19	3	8/16/2007	< 0.19	-	< 0.19	< 0.95	3.1	< 0.19	0.57	< 0.19
GP-07-20	2	8/16/2007	< 0.18	-	< 0.18	< 0.9	5	< 0.18	0.92	< 0.18
GP-07-21	3	8/16/2007	< 0.0043	-	< 0.0043	< 0.0086	< 0.0043	< 0.0043	< 0.0043	< 0.0043
GP-07-22	3	8/16/2007	< 0.19	-	< 0.19	< 0.95	1.5	< 0.19	< 0.19	< 0.19

Table 2 - Summary of Soil Analytical Data - VOCs
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Colonial Terminals
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Analyte			1,1-DCE	2,4-Dinitro- toluene	cis-1,2-DCE	Methylene Chloride	PCE	trans-1,2-DCE	TCE	Vinyl Chloride
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sample Location	Depth (ft bgs)	Date Sampled								
HA-07-01	3	10/22/2007	< 0.0052	-	< 0.0052	< 0.01	< 0.0052	< 0.0052	< 0.0052	< 0.0052
HA-07-02	3	10/22/2007	< 0.0073	-	< 0.0073	< 0.015	< 0.0073	< 0.0073	< 0.0073	< 0.0073
HA-07-03	3	10/22/2007	< 0.19	-	< 0.19	< 0.95	3	< 0.19	0.27	< 0.19
HA-07-03R	3	11/1/2007	< 0.35	-	< 0.35	< 1.8	11	< 0.35	0.8	< 0.35
HA-07-04	3	10/22/2007	< 0.0066	-	< 0.0066	< 0.013	< 0.0066	< 0.0066	< 0.0066	< 0.0066
HA-07-05	3	10/22/2007	< 0.0051	-	< 0.0051	< 0.01	< 0.0051	< 0.0051	< 0.0051	< 0.0051
HA-07-06	3	10/23/2007	< 0.0049	-	0.0082	< 0.0098	0.066	< 0.0049	0.016	< 0.0049
HA-07-07	3	11/4/2007	< 0.19	-	< 0.19	< 0.95	1.1	< 0.19	< 0.19	< 0.19
HA-07-08	4	11/4/2007	< 0.0037	-	0.005	< 0.0074	0.011	< 0.0037	0.018	< 0.0037
HA-07-09	3	11/4/2007	< 0.19	-	< 0.19	< 0.95	0.79	< 0.19	< 0.19	< 0.19
I-Floor-1	8	12/14/2007	< 0.0051	-	0.025	< 0.01	0.049	< 0.0051	0.015	< 0.0051
IVOC-1		12/14/2007	< 0.0051	-	0.045	< 0.01	0.095	< 0.0051	0.038	< 0.0051
IVOC-2		12/14/2007	< 0.0046	-	0.05	< 0.0092	0.087	< 0.0046	0.025	< 0.0046
IVOC-3		12/14/2007	< 0.0051	-	0.033	< 0.01	0.013	< 0.0051	0.012	< 0.0051
IVOC-4		12/14/2007	< 0.0053	-	0.1	< 0.011	0.13	< 0.0053	0.053	< 0.0053
IVOC-5		12/17/2007	< 0.0044	-	< 0.0088	< 0.0088	< 0.0044	< 0.0044	< 0.0044	< 0.0044
IVOC-6		12/17/2007	< 0.0056	-	< 0.011	< 0.011	< 0.0056	< 0.0056	< 0.0056	< 0.0056
IVOC-Floor -2	8	12/14/2007	< 0.005	-	0.009	< 0.01	0.036	< 0.005	0.013	< 0.005
IVOC-Floor -3		12/17/2007	< 0.0058	-	< 0.0058	< 0.012	< 0.012	< 0.0058	< 0.0058	< 0.0058
SB-1	0.5	8/25/1999	-	< 1.70	-	-	-	-	-	-
	0.5	8/25/1999	-	-	-	0.039	-	-	0.014	-
	4.5	8/25/1999	-	-	-	0.035	-	-	0.11	-
	4.5	8/25/1999	-	< 0.330	-	-	-	-	-	-
SB-2	0.5	8/25/1999	-	< 0.330	-	-	-	-	-	-
	0.5	8/25/1999	-	-	-	0.041	-	-	< 0.005	-
	3.5	8/25/1999	-	-	-	0.032	-	-	< 0.005	-
	3.5	8/25/1999	-	< 0.330	-	-	-	-	-	-
SB-20	0	10/1/2001	< 0.0069	-	< 0.0069	< 0.0069	< 0.0069	< 0.0069	< 0.0069	< 0.014
	3	10/1/2001	< 0.005	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01
SB-21	0	10/1/2001	< 0.0058	-	< 0.0058	< 0.0058	0.0044 E	< 0.0058	< 0.0058	< 0.012
	3	10/1/2001	< 0.0064	-	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.013
SB-23	0	10/15/2001	-	< 0.380	-	-	-	-	-	-
SB-24	0	10/15/2001	-	< 0.400	-	-	-	-	-	-
SB-25	0	10/15/2001	-	< 0.420	-	-	-	-	-	-

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Colonial Terminals
Savannah, Georgia

<i>Analyte</i>			1,1-DCE	2,4-Dinitro- toluene	cis-1,2-DCE	Methylene Chloride	PCE	trans-1,2-DCE	TCE	Vinyl Chloride
<i>Unit</i>			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sample Location	Depth (ft bgs)	Date Sampled								
SB-28	0	10/15/2001	-	< 1.90	-	-	-	-	-	-
	3	10/15/2001	-	< 0.380	-	-	-	-	-	-
	6	10/15/2001	-	< 0.380	-	-	-	-	-	-
SB-29	0	10/1/2001	-	-	-	< 0.0055	-	-	0.02	-
	3	10/1/2001	-	-	-	< 0.0065	-	-	0.3	-
SB-3	0.5	8/25/1999	-	< 0.330	-	-	-	-	-	-
	0.5	8/25/1999	-	-	-	0.068	-	-	< 0.005	-
	3.5	8/25/1999	-	-	-	0.027	-	-	< 0.005	-
	3.5	8/25/1999	-	< 0.330	-	-	-	-	-	-
SB-30	0	10/1/2001	-	-	-	< 0.0055	-	-	0.02	-
	3	10/1/2001	< 0.0044	-	0.0034 E	< 0.0044	0.55 E	< 0.0044	0.008	< 0.0087
SB-4	1	8/25/1999	-	-	-	0.015	-	-	< 0.005	-
	4	8/25/1999	-	-	-	0.016	-	-	< 0.005	-
	1	8/25/1999	-	< 0.330	-	-	-	-	-	-
	4	8/25/1999	-	< 0.330	-	-	-	-	-	-
SB-5	0.5	8/25/1999	-	< 0.330	-	-	-	-	-	-
	0.5	8/25/1999	-	-	-	0.047	-	-	< 0.005	-
	3.5	8/25/1999	-	-	-	0.055	-	-	0.035	-
	3.5	8/25/1999	-	< 0.330	-	-	-	-	-	-
SB-6	1	8/25/1999	-	-	-	0.045	-	-	0.0074	-
	3.5	8/25/1999	-	-	-	0.082	-	-	0.012	-
	1	8/25/1999	-	< 1.70	-	-	-	-	-	-
	3.5	8/25/1999	-	< 0.330	-	-	-	-	-	-
SB-7	0.5	8/25/1999	-	< 0.330	-	-	-	-	-	-
	0.5	8/25/1999	-	-	-	< 0.01	-	-	< 0.005	-
	3.5	8/25/1999	-	-	-	0.048	-	-	< 0.005	-
	3.5	8/25/1999	-	0.46	-	-	-	-	-	-
SB-8	0.5	8/25/1999	-	< 0.330	-	-	-	-	-	-
	0.5	8/25/1999	-	-	-	0.019	-	-	< 0.005	-
	3.5	8/25/1999	-	-	-	0.017	-	-	< 0.005	-
	3.5	8/25/1999	-	< 0.330	-	-	-	-	-	-
SB-9	0.5	8/25/1999	-	< 0.330	-	-	-	-	-	-
	0.5	8/25/1999	-	-	-	0.015	-	-	< 0.005	-
	3.5	8/25/1999	-	-	-	0.015	-	-	< 0.005	-
	3.5	8/25/1999	-	< 0.330	-	-	-	-	-	-

Table 2 - Summary of Soil Analytical Data - VOCs
Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

<i>Analyte</i>			1,1-DCE	2,4-Dinitro-	cis-1,2-DCE	Methylene	PCE	trans-1,2-DCE	TCE	Vinyl Chloride
<i>Unit</i>			mg/kg	toluene	mg/kg	Chloride	mg/kg	mg/kg	mg/kg	mg/kg
Sample Location	Depth (ft bgs)	Date Sampled								
Station 15+00	0	4/11/2000	< 0.0046	-	< 0.0046	< 0.046	< 0.0046	< 0.0046	< 0.0046	< 0.0046
	3	4/11/2000	< 0.0047	-	< 0.0047	< 0.047	< 0.0047	< 0.0047	< 0.0047	< 0.0047
	5	4/11/2000	< 0.0046	-	< 0.0046	< 0.046	< 0.0046	< 0.0046	< 0.0046	< 0.0046
	8	4/11/2000	< 0.0045	-	< 0.0045	< 0.045	< 0.0045	< 0.0045	< 0.0045	< 0.0045
	10.5	4/11/2000	< 0.0045	-	< 0.0045	< 0.045	< 0.0045	< 0.0045	< 0.0045	< 0.0045
	13	4/11/2000	< 0.0048	-	< 0.0048	< 0.048	< 0.0048	< 0.0048	< 0.0048	< 0.0048
	15.5	4/11/2000	< 0.0047	-	< 0.0047	< 0.047	< 0.0047	< 0.0047	< 0.0047	< 0.0047
18	4/11/2000	< 0.0045	-	< 0.0045	< 0.045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	
Station 18+00	0	4/12/2000	< 0.0053	-	< 0.0053	< 0.053	< 0.0053	< 0.0053	< 0.0053	< 0.0053
	3	4/12/2000	< 0.0047	-	< 0.0047	< 0.047	< 0.0047	< 0.0047	< 0.0047	< 0.0047
	5.5	4/12/2000	< 0.0042	-	< 0.0042	< 0.042	< 0.0042	< 0.0042	< 0.0042	< 0.0042
	8	4/12/2000	< 0.0042	-	< 0.0042	< 0.042	< 0.0042	< 0.0042	< 0.0042	< 0.0042
	10.5	4/12/2000	< 0.0046	-	< 0.0046	< 0.046	< 0.0046	< 0.0046	< 0.0046	< 0.0046
	13	4/12/2000	< 0.005	-	< 0.005	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005
	15.5	4/12/2000	< 0.0049	-	< 0.0049	< 0.049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
TW-05	5	12/14/2005	< 0.002	-	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002
TW-06	5	12/14/2005	< 0.002	-	0.002	-	0.004	< 0.002	0.002	< 0.002
TW-07	5	12/14/2005	0.006	-	0.048	-	0.074	< 0.002	0.027	< 0.002
TW-08	5	12/14/2005	0.008	-	0.026	-	0.057	< 0.002	0.02	< 0.002
TW-09	5	12/14/2005	0.01	-	< 0.002	-	0.035	< 0.002	< 0.002	< 0.002
TW-10	5	12/14/2005	< 0.002	-	0.005	-	2.11	< 0.002	0.018	< 0.002
TW-11	5	12/14/2005	0.026	-	0.003	-	0.54	< 0.002	0.011	< 0.002
TW-12	5	3/20/2006	< 0.0052	-	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052
TW-13	5	3/21/2006	0.0069	-	0.11	< 0.0059	0.14	< 0.0059	0.025	< 0.0059
TW-14	5	3/21/2006	< 0.0054	-	< 0.0054	< 0.054	< 0.0054	< 0.0054	< 0.0054	< 0.0054
TW-15	5	3/21/2006	< 0.0061	-	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061
TW-16	5	3/21/2006	< 0.0053	-	< 0.0053	< 0.0053	0.025	< 0.0053	0.022	< 0.0053
TW-17	5	3/21/2006	< 0.0055	-	0.018	< 0.0055	0.012	< 0.0055	< 0.0055	< 0.0055
TW-18	5	3/21/2006	< 0.0057	-	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057
TW-19	5	3/22/2006	< 0.0049	-	< 0.0049	< 0.049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
TW-20	5	3/22/2006	3.8	-	< 0.0051	0.029	0.0071	< 0.0051	0.0054	< 0.0051
TW-21	5	3/23/2006	< 0.0051	-	0.052	< 0.0051	0.011	< 0.0051	0.064	< 0.0051
TW-22	5	3/23/2006	< 0.0047	-	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047
TW-23	5	3/23/2006	< 0.0048	-	< 0.0048	< 0.0048	0.021	< 0.0048	0.011	< 0.0048
TW-24	5	3/23/2006	< 0.0053	-	0.053	< 0.0053	0.26	< 0.0053	0.12	< 0.0053

Table 2 - Summary of Soil Analytical Data - VOCs
Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

<i>Analyte</i>			1,1-DCE	2,4-Dinitro- toluene	cis-1,2-DCE	Methylene Chloride	PCE	trans-1,2-DCE	TCE	Vinyl Chloride
<i>Unit</i>			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sample Location	Depth (ft bgs)	Date Sampled								
TW-25	5	5/25/2006	< 0.0044	-	0.0081	< 0.0044	0.052	< 0.0044	< 0.18	< 0.0044
TW-26	5	5/25/2006	< 0.0062	-	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062
TW-27	5	5/25/2006	< 0.0051	-	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051
TW-29	4	4/23/2007	< 0.2	-	< 0.2	< 0.2	4.4	< 0.2	0.32	< 0.2
TW-30	3	4/24/2007	< 0.007	-	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
TW-31	4	4/24/2007	< 0.23	-	0.54	< 0.23	2	< 0.23	0.65	< 0.23
TW-32	3	4/24/2007	< 0.0051	-	< 0.0051	< 0.0051	0.02	< 0.0051	< 0.0051	< 0.0051

Notes:

"-" - Not analyzed

< - Analyte was not detected at the laboratory reporting limit indicated

mg/kg - milligrams per kilogram

Table 3 - Summary of Soil Analytical Data - Metals
Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

		<i>Analyte</i>	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Mercury	Nickel	Silver	Thallium	Zinc
		<i>Unit</i>	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sample Location	Depth (ft bgs)	Date Sampled													
1010SW	0 - 2	11/6/2007	-	160	-	-	-	-	-	1400	-	-	-	-	-
1020SW	0 - 5	11/6/2007	-	96	-	-	-	-	-	520	-	-	-	-	-
1021SW	0 - 5	11/6/2007	-	100	-	-	-	-	-	1500	-	-	-	-	-
1022SW	0 - 5	11/6/2007	-	54	-	-	-	-	-	1100	-	-	-	-	-
1022W	2 - 5	12/13/2007	-	50	-	-	-	-	-	630	-	-	-	-	-
1042-W	0 - 2	11/27/2007	-	22	-	-	-	-	-	230	-	-	-	-	-
1054W	0 - 2	12/11/2007	-	34	-	-	-	-	-	350	-	-	-	-	-
1058W-S	0 - 2	11/6/2007	-	55	-	-	-	-	-	1000	-	-	-	-	-
1058W-S	0 - 2	11/26/2007	-	54	-	-	-	-	-	1500	-	-	-	-	-
1058W-S	0 - 2	12/12/2007	-	9	-	-	-	-	-	56	-	-	-	-	-
1065W	0 - 2	12/11/2007	-	19	-	-	-	-	-	160	-	-	-	-	-
1066W	0 - 2	10/25/2007	-	2.3	-	-	-	-	-	51	-	-	-	-	-
1067W	0 - 2	10/25/2007	-	130	-	-	-	-	-	1500	-	-	-	-	-
1067W	0 - 2	11/8/2007	-	50	-	-	-	-	-	570	-	-	-	-	-
1072-W	0 - 2	11/27/2007	-	6.2	-	-	-	-	-	57	-	-	-	-	-
1079W	0 - 2	10/29/2007	-	9.3	-	-	-	-	-	82	-	-	-	-	-
1081W	0 - 2	10/25/2007	-	23	-	-	-	-	-	180	-	-	-	-	-
1086W	0 - 2	10/29/2007	-	74	-	-	-	-	-	370	-	-	-	-	-
1086W	0 - 2	11/29/2007	-	25	-	-	-	-	-	120	-	-	-	-	-
1095W	0 - 2	10/30/2007	-	15	-	-	-	-	-	140	-	-	-	-	-
A1-Floor	6	11/16/2007	-	100	-	-	-	-	-	82	-	-	-	-	-
A1-W-N	0 - 2	11/28/2007	-	63	-	-	-	-	-	67	-	-	-	-	-
A1-W-N	0 - 2	11/28/2007	-	4.7	-	-	-	-	-	31	-	-	-	-	-
A2-Floor	8	11/16/2007	-	85	-	-	-	-	-	41	-	-	-	-	-
A3-Floor	5	11/19/2007	-	120	-	-	-	-	-	550	-	-	-	-	-
A3-Wall South	5 - 8	11/19/2007	-	1300	-	-	-	-	-	1000	-	-	-	-	-
A4-Floor	0 - 2	11/20/2007	-	69	-	-	-	-	-	1000	-	-	-	-	-
A4-Wall South	0 - 2	11/19/2007	-	7	-	-	-	-	-	560	-	-	-	-	-
A5-Floor	0 - 5	11/20/2007	-	280	-	-	-	-	-	670	-	-	-	-	-
A5-W-S	0 - 2	11/27/2007	-	25	-	-	-	-	-	430	-	-	-	-	-
Area D Bottom-Center	2 - 5	11/9/2010	-	75.2	-	-	-	-	-	69	-	-	-	-	-
Area D Bottom-NE	2 - 5	11/9/2010	-	31.4	-	-	-	-	-	72.9	-	-	-	-	-
Area D Bottom-NW	2 - 5	11/9/2010	-	65.6	-	-	-	-	-	60	-	-	-	-	-
Area D Bottom-SE	2 - 5	11/9/2010	-	32	-	-	-	-	-	70.4	-	-	-	-	-
Area D Bottom-SW	2 - 5	11/9/2010	-	67.9	-	-	-	-	-	55.6	-	-	-	-	-
Area D SW-East	0 - 2	11/9/2010	-	2.14	-	-	-	-	-	5.64	-	-	-	-	-
Area D SW-North	0 - 2	11/9/2010	-	40.7	-	-	-	-	-	19.1	-	-	-	-	-
Area D SW-North	0 - 2	11/11/2010	-	3.42	-	-	-	-	-	38.5	-	-	-	-	-
Area D SW-South	0 - 2	11/9/2010	-	< 2.12	-	-	-	-	-	3.2	-	-	-	-	-
Area D SW-West	0 - 2	11/9/2010	-	< 9.43	-	-	-	-	-	< 4.71	-	-	-	-	-
B1-SUP-WN	0 - 2	12/4/2007	-	40	-	-	-	-	-	400	-	-	-	-	-

Table 3 - Summary of Soil Analytical Data - Metals
Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

		<i>Analyte</i>	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Mercury	Nickel	Silver	Thallium	Zinc
		<i>Unit</i>	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sample Location	Depth (ft bgs)	Date Sampled													
B2-SUP-WS1	0 - 2	12/4/2007	-	11	-	-	-	-	-	220	-	-	-	-	-
B2-SUP-WS2	0 - 2	12/4/2007	-	7.9	-	-	-	-	-	55	-	-	-	-	-
B2-SUP-WS3	0 - 2	12/5/2007	-	18	-	-	-	-	-	170	-	-	-	-	-
B2-SUP-WS4	0 - 2	12/5/2007	-	23	-	-	-	-	-	330	-	-	-	-	-
B2-SUP-WS5	0 - 2	12/5/2007	-	50	-	-	-	-	-	370	-	-	-	-	-
B2-SUP-WS5	0 - 2	12/12/2007	-	17	-	-	-	-	-	130	-	-	-	-	-
B2-SUP-WW	0 - 2	12/5/2007	-	31	-	-	-	-	-	310	-	-	-	-	-
B3-SUP-WS	0 - 2	12/5/2007	-	5.9	-	-	-	-	-	200	-	-	-	-	-
B3-SUP-WW	0 - 2	12/5/2007	-	8.4	-	-	-	-	-	100	-	-	-	-	-
C-Floor	5.5	11/17/2007	-	55	-	-	-	-	-	250	-	-	-	-	-
C-W-E	2 - 5	11/17/2007	-	7.1	-	-	-	-	-	98	-	-	-	-	-
C-W-N	2 - 5	11/17/2007	-	42	-	-	-	-	-	420	-	-	-	-	-
C-W-S	2 - 5	11/17/2007	-	120	-	-	-	-	-	1300	-	-	-	-	-
C-W-W	2 - 5	11/17/2007	-	380	-	-	-	-	-	47	-	-	-	-	-
C-W-W	2 - 5	11/17/2007	-	380	-	-	-	-	-	47	-	-	-	-	-
C-W-W	2 - 5	12/12/2007	-	20	-	-	-	-	-	13	-	-	-	-	-
D-1-Floor	2.5	11/2/2007	-	94	-	-	-	-	-	670	-	-	-	-	-
D-1-Floor-2	2.5	11/3/2007	-	100	-	-	-	-	-	810	-	-	-	-	-
D-1-Floor-3	2	11/3/2007	-	8.1	-	-	-	-	-	14	-	-	-	-	-
D-2-Floor	2	11/4/2007	-	92	-	-	-	-	-	95	-	-	-	-	-
D2R-W-E	0 - 2	11/17/2007	-	18	-	-	-	-	-	160	-	-	-	-	-
D-2-SW-E	0 - 2	11/4/2007	-	230	-	-	-	-	-	110	-	-	-	-	-
D-2-SW-S	0 - 2	11/4/2007	-	13	-	-	-	-	-	140	-	-	-	-	-
D-3-Floor	2	11/4/2007	-	56	-	-	-	-	-	280	-	-	-	-	-
D-3-SW-N	0 - 2	11/4/2007	-	22	-	-	-	-	-	180	-	-	-	-	-
D-3-SW-S	0 - 2	11/4/2007	-	16	-	-	-	-	-	170	-	-	-	-	-
D-3-SW-W	0 - 2	11/4/2007	-	6	-	-	-	-	-	92	-	-	-	-	-
D-Berm-2	0 - 2	11/3/2007	-	25	-	-	-	-	-	330	-	-	-	-	-
D-Berm-W-S	0 - 2	11/17/2007	-	31	-	-	-	-	-	300	-	-	-	-	-
D-HA-1	0 - 2	6/16/2010	-	92	-	-	-	-	-	110	-	-	-	-	-
D-HA-2	0 - 2	6/16/2010	-	17.4	-	-	-	-	-	107	-	-	-	-	-
D-HA-3	0 - 2	6/16/2010	-	6.7	-	-	-	-	-	52.1	-	-	-	-	-
E-Floor	5.5	11/17/2007	-	18	-	-	-	-	-	260	-	-	-	-	-
E-W-E	2 - 5	11/17/2007	-	4.3	-	-	-	-	-	10	-	-	-	-	-
E-W-N	2 - 5	11/17/2007	-	65	-	-	-	-	-	1400	-	-	-	-	-
E-W-S	2 - 5	11/17/2007	-	18	-	-	-	-	-	280	-	-	-	-	-
E-W-W	2 - 5	11/17/2007	-	14	-	-	-	-	-	210	-	-	-	-	-
F SUP NW	0 - 2	11/9/2007	-	24	-	-	-	-	-	410	-	-	-	-	-
F SUP SW	0 - 2	11/9/2007	-	13	-	-	-	-	-	150	-	-	-	-	-
F1-Floor	2	12/6/2007	-	31	-	-	-	-	-	670	-	-	-	-	-
F1-W-E	0 - 2	12/6/2007	-	3.3	-	-	-	-	-	75	-	-	-	-	-
F1-W-N	0 - 2	12/6/2007	-	9.5	-	-	-	-	-	270	-	-	-	-	-
F2-Floor	2	12/6/2007	-	38	-	-	-	-	-	560	-	-	-	-	-

Table 3 - Summary of Soil Analytical Data - Metals
Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

Sample Location	Analyte		Antimony mg/kg	Arsenic mg/kg	Barium mg/kg	Beryllium mg/kg	Cadmium mg/kg	Chromium (total) mg/kg	Copper mg/kg	Lead mg/kg	Mercury mg/kg	Nickel mg/kg	Silver mg/kg	Thallium mg/kg	Zinc mg/kg
	Depth (ft bgs)	Date Sampled													
F3-Floor 1	5	12/6/2007	-	62	-	-	-	-	-	21	-	-	-	-	-
F3-Floor 2	6	12/6/2007	-	7.3	-	-	-	-	-	17	-	-	-	-	-
F3-W-E	5	12/6/2007	-	73	-	-	-	-	-	1000	-	-	-	-	-
F3-W-N	0 - 2	12/6/2007	-	9.6	-	-	-	-	-	220	-	-	-	-	-
F3-W-N	2 - 5	12/6/2007	-	39	-	-	-	-	-	1700	-	-	-	-	-
F4 W-N	2 - 5	12/7/2007	-	91	-	-	-	-	-	1100	-	-	-	-	-
F4 W-N	5 - 8	12/7/2007	-	140	-	-	-	-	-	2600	-	-	-	-	-
F4-Floor	8	12/6/2007	-	5.6	-	-	-	-	-	11	-	-	-	-	-
F4-W-E	5 - 8	12/6/2007	-	21	-	-	-	-	-	30	-	-	-	-	-
F5-Floor	8	12/14/2007	-	48	-	-	-	-	-	3200	-	-	-	-	-
F5-Floor	5	12/14/2007	-	93	-	-	-	-	-	860	-	-	-	-	-
F5-Floor	8	12/17/2007	-	9.7	-	-	-	-	-	14	-	-	-	-	-
F5-Floor 3	5	12/17/2007	-	3.9	-	-	-	-	-	14	-	-	-	-	-
F5-Floor-2	5	12/14/2007	-	6.2	-	-	-	-	-	82	-	-	-	-	-
F5-W-S	0 - 2	12/19/2007	-	6.5	-	-	-	-	-	74	-	-	-	-	-
F5-W-S	2 - 5	12/19/2007	-	74	-	-	-	-	-	1000	-	-	-	-	-
F5-W-S	5 - 8	12/19/2007	-	8.3	-	-	-	-	-	90	-	-	-	-	-
F6 Floor 1	3	12/19/2007	-	46	-	-	-	-	-	990	-	-	-	-	-
F6 Floor 2	2	12/19/2007	-	33	-	-	-	-	-	370	-	-	-	-	-
F6-W-W	0 - 2	12/19/2007	-	30	-	-	-	-	-	240	-	-	-	-	-
F-Floor	5	11/6/2007	-	31	-	-	-	-	-	690	-	-	-	-	-
G1-NW	0 - 2	10/29/2007	-	1100	-	-	-	-	-	17000	-	-	-	-	-
G2NE	0 - 3	10/29/2007	-	96	-	-	-	-	-	2100	-	-	-	-	-
G4 - Floor	2	11/6/2007	-	27	-	-	-	-	-	64	-	-	-	-	-
G4-W-S	0 - 2	11/15/2007	-	24	-	-	-	-	-	370	-	-	-	-	-
G5-Floor	5	11/15/2007	-	56	-	-	-	-	-	110	-	-	-	-	-
G5-W-E	2 - 5	11/15/2007	-	180	-	-	-	-	-	1900	-	-	-	-	-
G5-W-E	2 - 5	11/28/2007	-	18	-	-	-	-	-	77	-	-	-	-	-
G5-W-N	2 - 5	11/15/2007	-	43	-	-	-	-	-	25	-	-	-	-	-
G5-W-S	2 - 5	11/15/2007	-	34	-	-	-	-	-	76	-	-	-	-	-
G-Floor	0 - 3	10/30/2007	-	96	-	-	-	-	-	1000	-	-	-	-	-
G-N2-Floor	3	11/1/2007	-	43	-	-	-	-	-	1300	-	-	-	-	-
G-N-Floor	3	10/31/2007	-	100	-	-	-	-	-	1400	-	-	-	-	-
G-N-SW	0 - 2	11/6/2007	-	99	-	-	-	-	-	1400	-	-	-	-	-
G-NW-SW	0 - 2	11/6/2007	-	38	-	-	-	-	-	640	-	-	-	-	-
G-W-N	0 - 2	12/11/2007	-	29	-	-	-	-	-	540	-	-	-	-	-
I16	0 - 2	12/17/2007	-	37	-	-	-	-	-	330	-	-	-	-	-
I1-Floor	2	11/12/2007	-	5.7	-	-	-	-	-	45	-	-	-	-	-
I1-SW	0 - 2	11/12/2007	-	15	-	-	-	-	-	150	-	-	-	-	-
I2-Floor	2	11/12/2007	-	25	-	-	-	-	-	220	-	-	-	-	-
I2-W	0 - 2	11/12/2007	-	70	-	-	-	-	-	1500	-	-	-	-	-
I3-Floor	2	11/13/2007	-	24	-	-	-	-	-	210	-	-	-	-	-
I3-W-N	0 - 2	11/13/2007	-	50	-	-	-	-	-	250	-	-	-	-	-
I3-W-S	0 - 2	11/13/2007	-	17	-	-	-	-	-	230	-	-	-	-	-
I3-W-W	0 - 2	11/13/2007	-	23	-	-	-	-	-	220	-	-	-	-	-

Table 3 - Summary of Soil Analytical Data - Metals
Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

		Analyte		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Mercury	Nickel	Silver	Thallium	Zinc
		Unit		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sample Location	Depth (ft bgs)	Date Sampled														
I4-Floor	5	11/13/2007	-	200	-	-	-	-	-	-	700	-	-	-	-	-
I4-W-N	2 - 5	11/13/2007	-	33	-	-	-	-	-	-	350	-	-	-	-	-
I4-W-S	0 - 2	11/27/2007	-	4.8	-	-	-	-	-	-	57	-	-	-	-	-
I4-W-W	2 - 5	11/13/2007	-	22	-	-	-	-	-	-	43	-	-	-	-	-
I5-Floor	3	11/13/2007	-	20	-	-	-	-	-	-	77	-	-	-	-	-
I5-W-N	0 - 2	11/13/2007	-	57	-	-	-	-	-	-	490	-	-	-	-	-
I5-W-N	0 - 2	11/28/2007	-	20	-	-	-	-	-	-	120	-	-	-	-	-
I6-Floor	2	11/13/2007	-	14	-	-	-	-	-	-	180	-	-	-	-	-
I6-W-W	0 - 2	11/13/2007	-	14	-	-	-	-	-	-	99	-	-	-	-	-
I7-Floor	2	11/14/2007	-	32	-	-	-	-	-	-	210	-	-	-	-	-
I7-W-S	0 - 2	11/14/2007	-	21	-	-	-	-	-	-	150	-	-	-	-	-
I7-W-W	0 - 2	11/14/2007	-	34	-	-	-	-	-	-	290	-	-	-	-	-
I8-Floor	2	11/28/2007	-	37	-	-	-	-	-	-	350	-	-	-	-	-
I8-W-S	0 - 2	11/28/2007	-	20	-	-	-	-	-	-	180	-	-	-	-	-
I8-W-W	0 - 2	11/28/2007	-	11	-	-	-	-	-	-	110	-	-	-	-	-
I9-Floor	2	11/28/2007	-	20	-	-	-	-	-	-	210	-	-	-	-	-
I9-W-N	0 - 2	11/28/2007	-	17	-	-	-	-	-	-	180	-	-	-	-	-
MW-18	0	5/15/2005	-	-	-	-	-	-	-	-	370	-	-	-	-	-
	2	5/15/2005	-	-	-	-	-	-	-	-	250	-	-	-	-	-
	5	5/15/2005	-	-	-	-	-	-	-	-	8.4	-	-	-	-	-
MW-19	0	5/15/2005	-	-	-	-	-	-	-	-	5100	-	-	-	-	-
	2	5/15/2005	-	-	-	-	-	-	-	-	320	-	-	-	-	-
	6	5/15/2005	-	-	-	-	-	-	-	-	27	-	-	-	-	-
SB-1	0.5	8/25/1999	29	-	53	0.4	1.5	21	29	72	< 0.500	< 1.00	< 5.00	-	-	110
	4.5	8/25/1999	< 5.00	-	33	< 0.300	0.69	5.2	6.9	7.8	< 0.500	1.2	< 5.00	-	-	< 100
SB-2	0.5	8/25/1999	7.1	-	23	< 0.300	1.7	15	38	160	< 0.500	3.9	< 5.00	-	-	< 100
	3.5	8/25/1999	11	-	15	< 0.300	1.2	11	18	12	< 0.500	2.5	< 5.00	-	-	< 100
SB-3	0.5	8/25/1999	20	-	65	< 0.300	1.8	9.3	110	580	0.63	2.7	< 5.00	-	-	160
	3.5	8/25/1999	5	-	33	< 0.300	0.52	< 5.00	870	92	< 0.500	< 1.00	< 5.00	-	-	< 100
SB-4	1	8/25/1999	12	-	45	< 0.300	2.5	24	< 5.00	16	< 0.500	3.9	< 5.00	-	-	< 100
	4	8/25/1999	7	-	24	< 0.300	1.1	11	27	11	< 0.500	2.3	< 5.00	-	-	< 100
	6	8/25/1999	< 5.00	-	13	< 0.300	< 0.500	< 5.00	38	6.9	-	< 1.00	< 5.00	-	-	-
SB-5	0.5	8/25/1999	< 5.00	-	9.9	< 0.300	< 0.500	< 5.00	< 5.00	< 5.00	< 0.500	< 1.00	< 5.00	-	-	< 100
	3.5	8/25/1999	22	-	14	< 0.300	0.77	8.2	5.9	31	< 0.500	1.4	< 5.00	-	-	< 100
SB-6	1	8/25/1999	9	-	48	< 0.300	1.3	8.7	17	60	< 0.500	3	< 5.00	-	-	< 100
	3.5	8/25/1999	32	-	18	< 0.300	< 0.500	5.5	9.2	67	< 0.500	< 1.00	< 5.00	-	-	< 100
SB-7	0.5	8/25/1999	< 5.00	-	7.2	< 0.300	< 0.500	< 5.00	9.5	23	< 0.500	< 1.00	< 5.00	-	-	< 100
	3.5	8/25/1999	9.3	-	37	< 0.300	0.56	< 5.00	12	68	< 0.500	< 1.00	< 5.00	-	-	< 100
SB-8	0.5	8/25/1999	19	-	62	< 0.300	1.9	9.6	42	230	0.52	< 1.00	< 5.00	-	-	< 100
	3.5	8/25/1999	20	-	18	< 0.300	3.6	27	26	19	< 0.500	4.5	< 5.00	-	-	< 100
SB-9	0.5	8/25/1999	14	-	42	< 0.300	2.3	69	300	430	2.2	7.5	< 5.00	-	-	260
	3.5	8/25/1999	14	-	48	< 0.300	1.5	24	120	410	1.7	5.1	< 5.00	-	-	120
SB-20	0	10/1/2001	1.7	-	-	-	< 0.570	11	38	160	0.21	< 4.60	-	-	-	90
	3	10/1/2001	12	-	50	-	-	-	140	3400	6.7	< 4.80	-	-	-	310
	6	10/1/2001	< 2.20	-	13	-	-	-	3.8	11	< 0.0240	-	-	-	-	400

Table 3 - Summary of Soil Analytical Data - Metals
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Colonial Terminals
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		Analyte Unit	Antimony mg/kg	Arsenic mg/kg	Barium mg/kg	Beryllium mg/kg	Cadmium mg/kg	Chromium (total) mg/kg	Copper mg/kg	Lead mg/kg	Mercury mg/kg	Nickel mg/kg	Silver mg/kg	Thallium mg/kg	Zinc mg/kg
Sample Location	Depth (ft bgs)	Date Sampled													
SB-21	3	10/1/2001	< 1.20	-	-	-	< 0.600	-	-	-	-	-	-	-	-
SB-22	0	11/15/2001	3.3	-	120	0.7	0.51	25	190	390	0.39	25	< 1.00	0.29	320
SB-23	0	10/15/2001	< 1.00	-	12	-	-	2.9	5.1	36	0.24	< 4.10	-	-	-
SB-24	0	10/15/2001	11	-	100	-	-	88	120	420	2.6	12	-	< 1.10	-
SB-25	0	10/15/2001	3.6	-	-	< 0.470	-	23	240	520	0.9	44	1.4	< 1.20	1000
SB-26	0	10/15/2001	-	-	63	-	-	-	65	770	0.94	-	-	-	97
SB-27	0	10/15/2001	11	-	-	-	-	-	450	3900	0.76	-	-	-	590
	3	10/15/2001	< 1.20	-	-	-	-	23	41	50	0.037	-	< 1.20	-	46
	6	10/15/2001	-	-	-	-	-	15	37	-	-	-	-	-	43
SB-28	0	10/15/2001	4.1	-	95	-	-	-	38	260	0.58	5	-	-	98
	3	10/15/2001	51	-	88	-	-	-	530	2000	7.8	6.3	1.2	-	1400
	6	10/15/2001	< 2.10	-	36	-	-	-	400	150	0.058	< 4.30	-	-	230
SB-29	0	10/1/2001	2.9	-	-	-	< 0.480	16	-	-	-	-	-	-	-
	3	10/1/2001	< 2.20	-	-	-	< 0.540	4.6	-	-	-	-	-	-	-
SB-30	0	10/1/2001	< 0.950	-	-	-	< 0.470	13	-	69	-	-	-	-	-
	3	10/1/2001	< 0.990	-	-	-	< 0.490	-	59	-	-	-	-	-	-
	6	10/1/2001	-	-	-	-	-	-	39	-	-	-	-	-	-
SB-31	0	11/15/2001	1.8	-	87	-	-	9.6	71	190	1.2	< 4.00	< 0.990	-	-
	0	11/15/2001	< 1.10	-	-	-	-	-	-	410	0.17	-	-	-	-
	3	11/15/2001	< 1.10	-	12	-	-	-	3.5	9.2	0.085	-	-	-	12
SB-34	0	9/15/2002	< 2.50	-	-	-	< 0.620	8.4	12	68	-	< 5.00	-	-	74
SB-37	3	9/15/2002	-	-	-	-	-	-	-	8600	-	-	-	-	-
SB-38	3	9/15/2002	-	-	-	-	-	-	-	960	-	-	-	-	-
	5	9/15/2002	-	-	-	-	-	-	-	3700	-	-	-	-	-
SB-40	3	9/15/2002	-	-	-	-	-	-	-	1100	-	-	-	-	-
SB-41	3	9/15/2002	-	-	-	-	-	-	-	1700	-	-	-	-	-
	5	9/15/2002	-	-	-	-	-	-	-	27	-	-	-	-	-
SB-42	3	9/15/2002	-	-	-	-	-	-	-	15	-	-	-	-	-
	5.5	9/15/2002	-	-	-	-	-	-	-	8.6	-	-	-	-	-
SB-45	3	9/15/2002	-	-	-	-	-	-	-	140	-	-	-	-	-
	6	9/15/2002	-	-	-	-	-	-	-	2.8	-	-	-	-	-
SB-46	3	9/15/2002	-	-	-	-	-	-	-	14	-	-	-	-	-
	6	9/15/2002	-	-	-	-	-	-	-	8	-	-	-	-	-
SB-47	3	9/15/2002	-	-	-	-	-	-	-	34	-	-	-	-	-
	6	9/15/2002	-	-	-	-	-	-	-	6.1	-	-	-	-	-
SB-48	0	9/15/2003	-	-	-	-	-	-	-	230	-	-	-	-	-
	3	9/15/2003	-	-	-	-	-	-	-	95	-	-	-	-	-
SB-49	0	9/15/2003	-	-	-	-	-	-	-	3800	-	-	-	-	-
	3	9/15/2003	-	-	-	-	-	-	-	18	-	-	-	-	-
SB-50	0	9/15/2003	-	-	-	-	-	-	-	630	-	-	-	-	-
	3	9/15/2003	-	-	-	-	-	-	-	44	-	-	-	-	-
SB-51	0	9/15/2003	-	-	-	-	-	-	-	15	-	-	-	-	-
SB-52	0	9/15/2003	-	-	-	-	-	-	-	840	-	-	-	-	-
	4	9/15/2003	-	-	-	-	-	-	-	28	-	-	-	-	-

Table 3 - Summary of Soil Analytical Data - Metals
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		<i>Analyte</i>	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Mercury	Nickel	Silver	Thallium	Zinc
		<i>Unit</i>	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sample Location	Depth (ft bgs)	Date Sampled													
SB-53	0	9/15/2003	-	-	-	-	-	-	-	5.5	-	-	-	-	-
	4	9/15/2003	-	-	-	-	-	-	-	5.1	-	-	-	-	-
SB-54	0	9/15/2003	-	-	-	-	-	-	-	12	-	-	-	-	-
	4	9/15/2003	-	-	-	-	-	-	-	13	-	-	-	-	-
SB-55	0	9/15/2003	-	-	-	-	-	-	-	1500	-	-	-	-	-
	4	9/15/2003	-	-	-	-	-	-	-	1400	-	-	-	-	-
SB-56	0	9/15/2003	-	-	-	-	-	-	-	270	-	-	-	-	-
	4	9/15/2003	-	-	-	-	-	-	-	3200	-	-	-	-	-
SB-57	0	9/15/2003	-	-	-	-	-	-	-	9	-	-	-	-	-
	5	9/15/2003	-	-	-	-	-	-	-	4.6	-	-	-	-	-
SB-58	0	9/15/2003	-	-	-	-	-	-	-	3.3	-	-	-	-	-
	4	9/15/2003	-	-	-	-	-	-	-	5.6	-	-	-	-	-
SB-59	3	9/15/2003	-	-	-	-	-	-	-	230	-	-	-	-	-
	6	9/15/2003	-	-	-	-	-	-	-	7.5	-	-	-	-	-
SB-60	3	9/15/2003	-	-	-	-	-	-	-	580	-	-	-	-	-
	6	9/15/2003	-	-	-	-	-	-	-	5.9	-	-	-	-	-
SB-61	3	9/15/2003	-	-	-	-	-	-	-	95	-	-	-	-	-
	5.5	9/15/2003	-	-	-	-	-	-	-	20	-	-	-	-	-
SB-62	3	9/15/2003	-	-	-	-	-	-	-	180	-	-	-	-	-
SB-63	3	9/15/2003	-	-	-	-	-	-	-	2.9	-	-	-	-	-
SB-64	3	9/15/2003	-	-	-	-	-	-	-	8.2	-	-	-	-	-
SB-65	3	9/15/2003	-	-	-	-	-	-	-	11	-	-	-	-	-
SB-66	3	9/15/2003	-	-	-	-	-	-	-	94	-	-	-	-	-
SB-67	3	11/15/2003	-	-	-	-	-	-	-	53	-	-	-	-	-
SB-68	3	11/15/2003	-	-	-	-	-	-	-	17	-	-	-	-	-
	6	11/15/2003	-	-	-	-	-	-	-	10	-	-	-	-	-
SB-69	3	11/15/2003	-	-	-	-	-	-	-	620	-	-	-	-	-
	6	11/15/2003	-	-	-	-	-	-	-	11	-	-	-	-	-
SB-70	3	11/15/2003	-	-	-	-	-	-	-	< 2.8	-	-	-	-	-
	6	11/15/2003	-	-	-	-	-	-	-	11	-	-	-	-	-
SB-71	3	11/15/2003	-	-	-	-	-	-	-	8.2	-	-	-	-	-
SB-72	3	11/15/2003	-	-	-	-	-	-	-	5.2	-	-	-	-	-
	6	11/15/2003	-	-	-	-	-	-	-	18	-	-	-	-	-
SB-73	3	11/15/2003	-	-	-	-	-	-	-	250	-	-	-	-	-
SB-74	3	11/15/2003	-	-	-	-	-	-	-	19	-	-	-	-	-
	6	11/15/2003	-	-	-	-	-	-	-	16	-	-	-	-	-
SL-BF-1	1	12/11/2007	-	7.7	-	-	-	-	-	50	-	-	-	-	-
	4	12/11/2007	-	1.7	-	-	-	-	-	9.7	-	-	-	-	-
SL-BF-2	1	12/11/2007	-	22	-	-	-	-	-	200	-	-	-	-	-
	4	12/11/2007	-	3.6	-	-	-	-	-	14	-	-	-	-	-

Table 3 - Summary of Soil Analytical Data - Metals
Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

<i>Analyte</i>			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Mercury	Nickel	Silver	Thallium	Zinc
<i>Unit</i>			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sample Location	Depth (ft bgs)	Date Sampled													
SL-BF-3	1	12/11/2007	-	2.5	-	-	-	-	-	25	-	-	-	-	-
	4	12/11/2007	-	1.7	-	-	-	-	-	5.1	-	-	-	-	-

Notes:

"-" - Not analyzed

< - Analyte was not detected at the laboratory reporting limit indicated
mg/kg - milligrams per kilogram

Table 4 - Summary of Groundwater Analytical Data - VOCs
Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

Analyte		1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	2-Dibromo-3-chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
Unit		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Sample Location	Date Sampled													
GP-05-05	8/18/2005	-	-	-	-	-	124	-	-	-	-	-	-	-
GP-06-05	8/18/2005	-	-	-	-	-	151	-	-	-	-	-	-	-
MW-01	8/1/1998	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/5/2005	-	-	-	-	-	< 5	-	-	-	-	-	-	-
	11/1/2007	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	11/4/2007	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	11/12/2007	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	8/13/2008	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	9/1/2009	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	8/30/2010	-	-	-	-	-	0.68	-	-	-	-	-	-	-
12/13/2013	6.4	< 5.0	< 5.0	< 5.0	95	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
MW-02	8/1/1998	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/5/2005	-	-	-	-	-	160	-	-	-	-	-	-	-
MW-03	8/1/1998	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/1/1998	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/5/2005	-	-	-	-	-	< 5	-	-	-	-	-	-	-
	11/1/2007	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	11/4/2007	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	11/11/2007	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	8/13/2008	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	9/1/2009	-	-	-	-	-	< 1	-	-	-	-	-	-	-
8/30/2010	-	-	-	-	-	0.48	-	-	-	-	-	-	-	
MW-04	8/1/1998	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/5/2005	-	-	-	-	-	980	-	-	-	-	-	-	-
MW-06 MW-06R	10/1/2001	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-
	10/4/2004	-	-	-	-	-	16	-	-	-	-	-	-	-
	2/5/2005	-	-	-	-	-	9	-	-	-	-	-	-	-
	8/12/2008	-	-	-	-	-	4.5	-	-	-	-	-	-	-
	9/1/2009	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	8/31/2010	-	-	-	-	-	< 1	-	-	-	-	-	-	-
12/12/2013	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-07	10/1/2001	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/19/2001	-	-	-	-	-	< 5	-	-	-	-	-	-	-
	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/30/2003	-	-	-	-	-	< 5	-	-	-	-	-	-	-
MW-08	10/1/2001	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/19/2001	-	-	-	-	-	26	-	-	-	-	-	-	-
	2/5/2005	-	-	-	-	-	6	-	-	-	-	-	-	-
	5/20/2008	-	-	-	-	-	1.7	-	-	-	-	-	-	-
	9/1/2009	-	-	-	-	-	0.82	-	-	-	-	-	-	-
	8/31/2010	-	-	-	-	-	0.48	-	-	-	-	-	-	-
12/12/2013	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-09	11/1/2001	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/19/2002	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/1/2003	-	-	-	-	-	< 5	-	-	-	-	-	-	-

Table 4 - Summary of Groundwater Analytical Data - VOCs
Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

Sample Location	Analyte Unit Date Sampled	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	2-Dibromo-3-chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MW-09D	11/1/2001	-	-	-	-	-	11	-	-	-	-	-	-	-
	9/29/2003	-	-	-	-	-	1300	-	-	-	-	-	-	-
	9/30/2003	-	-	-	-	-	10	-	-	-	-	-	-	-
	10/1/2003	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/5/2005	-	-	-	-	-	10	-	-	-	-	-	-	-
	8/12/2008	-	-	-	-	-	15.7	-	-	-	-	-	-	-
	9/1/2009	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	9/2/2009	-	-	-	-	-	9.6	-	-	-	-	-	-	-
	9/1/2010	-	-	-	-	-	10.9	-	-	-	-	-	-	-
	12/11/2013	< 2.0	< 2.0	< 2.0	< 2.0	3.4	7.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
10/29/2014	< 2.0	< 2.0	< 2.0	< 2.0	2.7	5.8	< 10	< 10	< 10	< 2.0	< 2.0	< 2.0	< 2.0	
MW-10	9/29/2003	-	-	-	-	-	< 5	-	-	-	-	-	-	-
	10/1/2003	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-101D	4/19/2014	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0
	10/29/2014	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-102D	4/19/2014	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0
	10/29/2014	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-11	9/29/2003	-	-	-	-	-	1300	-	-	-	-	-	-	-
MW-11R	2/22/2005	-	-	-	-	-	870	-	-	-	-	-	-	-
	9/16/2005	-	-	-	-	-	690	-	-	-	-	-	-	-
	9/22/2005	-	-	-	-	-	98.3	-	-	-	-	-	-	-
	10/27/2005	-	-	-	-	-	668	-	-	-	-	-	-	-
	5/18/2007	-	-	-	-	-	440	-	-	-	-	-	-	-
	6/6/2007	-	-	-	-	-	340	-	-	-	-	-	-	-
	6/19/2007	-	-	-	-	-	210	-	-	-	-	-	-	-
	7/3/2007	-	-	-	-	-	< 50	-	-	-	-	-	-	-
	7/16/2007	-	-	-	-	-	< 25	-	-	-	-	-	-	-
	8/15/2007	-	-	-	-	-	< 25	-	-	-	-	-	-	-
	9/2/2009	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	9/1/2010	-	-	-	-	-	< 250	-	-	-	-	-	-	-
	12/11/2013	< 100	< 100	< 100	< 100	< 100	120	< 100	< 100	< 100	< 100	< 100	< 100	< 100
	10/29/2014	< 100	< 100	< 100	< 100	110	170	< 500	< 500	< 500	< 100	< 100	< 100	< 100
MW-11D	2/22/2005	-	-	-	-	-	< 5	-	-	-	-	-	-	-
MW-12	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/22/2005	-	-	-	-	-	80	-	-	-	-	-	-	-
	10/24/2007	-	-	-	-	-	54	-	-	-	-	-	-	-
	11/1/2007	-	-	-	-	-	< 50	-	-	-	-	-	-	-
	11/3/2007	-	-	-	-	-	< 5	-	-	-	-	-	-	-
	11/12/2007	-	-	-	-	-	< 5	-	-	-	-	-	-	-
	5/20/2008	-	-	-	-	-	< 10	-	-	-	-	-	-	-
MW-12R	8/31/2010	-	-	-	-	-	< 1000	-	-	-	-	-	-	-
	12/12/2013	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
	12/12/2013	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
	10/29/2014	< 250	< 250	< 250	< 250	< 250	< 250	< 1300	< 1300	< 1300	< 250	< 250	< 250	< 250
MW-12D	8/11/2008	-	-	-	-	-	1.4	-	-	-	-	-	-	-
	9/2/2009	-	-	-	-	-	< 5	-	-	-	-	-	-	-
	8/30/2010	-	-	-	-	-	< 2	-	-	-	-	-	-	-
	12/12/2013	< 5.0	< 5.0	< 5.0	< 5.0	9.4	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-13	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/29/2003	-	-	-	-	-	5.2	-	-	-	-	-	-	-
	2/5/2005	-	-	-	-	-	< 5	-	-	-	-	-	-	-
MW-14	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	

Table 4 - Summary of Groundwater Analytical Data - VOCs

Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

Analyte		1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	2-Dibromo-3-chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
Unit		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Sample Location	Date Sampled													
MW-16	2/5/2005	-	-	-	-	-	< 5	-	-	-	-	-	-	-
	5/20/2008	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	9/2/2009	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	9/1/2010	-	-	-	-	-	< 1	-	-	-	-	-	-	-
MW-17	2/5/2005	-	-	-	-	-	< 5	-	-	-	-	-	-	
MW-18	5/1/2005	-	-	-	-	-	23	-	-	-	-	-	-	-
	5/20/2008	-	-	-	-	-	13	-	-	-	-	-	-	-
	9/2/2009	-	-	-	-	-	62.6	-	-	-	-	-	-	-
	9/1/2010	-	-	-	-	-	58.4	-	-	-	-	-	-	-
	12/11/2013	< 1.0	< 1.0	< 1.0	< 1.0	3.6	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-19	5/1/2005	-	-	-	-	-	< 2	-	-	-	-	-	-	-
	5/20/2008	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	9/2/2009	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	9/1/2010	-	-	-	-	-	< 1	-	-	-	-	-	-	-
MW-20	10/24/2007	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	9/2/2009	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	8/31/2010	-	-	-	-	-	< 1	-	-	-	-	-	-	-
MW-24	5/20/2008	-	-	-	-	-	76.8	-	-	-	-	-	-	-
	9/3/2009	-	-	-	-	-	43.8	-	-	-	-	-	-	-
	9/1/2010	-	-	-	-	-	39.7	-	-	-	-	-	-	-
	12/11/2013	< 1.0	< 1.0	< 1.0	< 1.0	2	1.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-25	5/21/2008	-	-	-	-	-	2190	-	-	-	-	-	-	-
	9/3/2009	-	-	-	-	-	803	-	-	-	-	-	-	-
	9/2/2010	-	-	-	-	-	2810	-	-	-	-	-	-	-
	12/11/2013	< 1.0	< 1.0	< 1.0	< 1.0	5	57	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/30/2014	< 2.0	< 2.0	< 2.0	< 2.0	23	330	< 10*	< 10*	< 10	< 2.0	< 2.0	< 2.0	< 2.0
MW-26	5/20/2008	-	-	-	-	-	509	-	-	-	-	-	-	-
	9/2/2009	-	-	-	-	-	264	-	-	-	-	-	-	-
	9/2/2010	-	-	-	-	-	773	-	-	-	-	-	-	-
	12/11/2013	< 1.0	< 1.0	< 1.0	< 1.0	15	6.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-28	12/13/2013	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-29	8/12/2008	-	-	-	-	-	2	-	-	-	-	-	-	-
	9/2/2009	-	-	-	-	-	0.65 J	-	-	-	-	-	-	-
	9/1/2010	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	12/11/2013	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-30	8/12/2008	-	-	-	-	-	264	-	-	-	-	-	-	-
	9/3/2009	-	-	-	-	-	94.4 J	-	-	-	-	-	-	-
	8/31/2010	-	-	-	-	-	176	-	-	-	-	-	-	-
	12/12/2013	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
	10/29/2014	< 500	< 500	< 500	< 500	< 500	< 500	< 2500	< 2500	< 2500	< 500	< 500	< 500	< 500
	10/29/2014	< 200	< 200	< 200	< 200	< 200	< 200	< 1000	< 1000	< 1000	< 200	< 200	< 200	< 200
MW-31	8/11/2008	-	-	-	-	-	1580	-	-	-	-	-	-	-
	9/2/2009	-	-	-	-	-	27	-	-	-	-	-	-	-
	8/31/2010	-	-	-	-	-	345	-	-	-	-	-	-	-
MW-32	8/12/2008	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	9/3/2009	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	9/1/2010	-	-	-	-	-	< 1	-	-	-	-	-	-	-
MW-33	8/11/2008	-	-	-	-	-	< 0.54	-	-	-	-	-	-	-
	8/12/2008	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	9/2/2009	-	-	-	-	-	< 1	-	-	-	-	-	-	-
	8/31/2010	-	-	-	-	-	< 1	-	-	-	-	-	-	-

Table 4 - Summary of Groundwater Analytical Data - VOCs
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Colonial Terminals
Savannah, Georgia

Analyte		1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
Unit		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Sample Location	Date Sampled													
MW-34	8/11/2008	-	-	-	-	-	< 10	-	-	-	-	-	-	-
	8/31/2010	-	-	-	-	-	3.9	-	-	-	-	-	-	-
	12/12/2013	36	< 5.0	< 5.0	< 5.0	9.2	8.7	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-35	8/11/2008	-	-	-	-	-	< 200	-	-	-	-	-	-	-
	9/1/2009	-	-	-	-	-	< 200	-	-	-	-	-	-	-
	8/31/2010	-	-	-	-	-	88.5	-	-	-	-	-	-	-
MW-36D	8/11/2008	-	-	-	-	-	26	-	-	-	-	-	-	-
	9/1/2009	-	-	-	-	-	13.8	-	-	-	-	-	-	-
	8/31/2010	-	-	-	-	-	5.7	-	-	-	-	-	-	-
TW-01	8/17/2005	-	-	-	-	-	526	-	-	-	-	-	-	-
	9/22/2005	-	-	-	-	-	847	-	-	-	-	-	-	-
	10/27/2005	-	-	-	-	-	1520	-	-	-	-	-	-	-
	5/18/2007	-	-	-	-	-	880	-	-	-	-	-	-	-
	6/19/2007	-	-	-	-	-	300	-	-	-	-	-	-	-
	7/16/2007	-	-	-	-	-	380	-	-	-	-	-	-	-
	8/15/2007	-	-	-	-	-	360	-	-	-	-	-	-	-
	12/11/2013	< 50	< 50	< 50	< 50	65	90	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	12/11/2013	< 50	< 50	< 50	< 50	60	120	< 50	< 50	< 50	< 50	< 50	< 50	< 50
TW-02	8/17/2005	-	-	-	-	-	176	-	-	-	-	-	-	-
	9/22/2005	-	-	-	-	-	123	-	-	-	-	-	-	-
	10/27/2005	-	-	-	-	-	278	-	-	-	-	-	-	-
	5/18/2007	-	-	-	-	-	90	-	-	-	-	-	-	-
	6/19/2007	-	-	-	-	-	48	-	-	-	-	-	-	-
	7/16/2007	-	-	-	-	-	39	-	-	-	-	-	-	-
	8/15/2007	-	-	-	-	-	21	-	-	-	-	-	-	-
TW-03	8/17/2005	-	-	-	-	-	120	-	-	-	-	-	-	-
	9/22/2005	-	-	-	-	-	139	-	-	-	-	-	-	-
	10/27/2005	-	-	-	-	-	346	-	-	-	-	-	-	-
	5/18/2007	-	-	-	-	-	420	-	-	-	-	-	-	-
	6/19/2007	-	-	-	-	-	210	-	-	-	-	-	-	-
	7/16/2007	-	-	-	-	-	32	-	-	-	-	-	-	-
	8/15/2007	-	-	-	-	-	45	-	-	-	-	-	-	-
	12/11/2013	2.8	< 1.0	< 1.0	< 1.0	4.5	90	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0
TW-04	8/17/2005	-	-	-	-	-	129	-	-	-	-	-	-	-
	9/22/2005	-	-	-	-	-	57.9	-	-	-	-	-	-	-
	10/27/2005	-	-	-	-	-	736	-	-	-	-	-	-	-
	5/18/2007	-	-	-	-	-	< 91	-	-	-	-	-	-	-
	6/19/2007	-	-	-	-	-	< 10	-	-	-	-	-	-	-
	7/16/2007	-	-	-	-	-	< 5	-	-	-	-	-	-	-
	8/15/2007	-	-	-	-	-	28	-	-	-	-	-	-	-
	12/11/2013	< 1.0	< 1.0	< 1.0	< 1.0	3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TW-05	12/15/2005	-	-	-	-	-	< 1	-	-	-	-	-	-	-
TW-06	12/15/2005	-	-	-	-	-	11.9	-	-	-	-	-	-	-
	3/7/2006	-	-	-	-	-	-	-	-	-	-	-	-	-
TW-07	12/15/2005	-	-	-	-	-	648	-	-	-	-	-	-	-
	3/7/2006	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/20/2006	-	-	-	-	-	600	-	-	-	-	-	-	-
TW-08	12/15/2005	-	-	-	-	-	24.9	-	-	-	-	-	-	-
	3/7/2006	-	-	-	-	-	-	-	-	-	-	-	-	-
TW-09	12/15/2005	-	-	-	-	-	348	-	-	-	-	-	-	-
	9/2/2009	-	-	-	-	-	1	-	-	-	-	-	-	-
	8/30/2010	-	-	-	-	-	11.2	-	-	-	-	-	-	-

Table 4 - Summary of Groundwater Analytical Data - VOCs
Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

Analyte		1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	
Sample Location	Date Sampled	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
TW-10	12/15/2005	-	-	-	-	-	13.7	-	-	-	-	-	-	-	
TW-11	12/15/2005	-	-	-	-	-	55.2	-	-	-	-	-	-	-	
TW-12	3/20/2006	-	-	-	-	-	7900	-	-	-	-	-	-	-	
	8/12/2008	-	-	-	-	-	12200	-	-	-	-	-	-	-	
	9/2/2009	-	-	-	-	-	4770	-	-	-	-	-	-	-	
	9/1/2010	-	-	-	-	-	643	-	-	-	-	-	-	-	
TW-13	3/20/2006	-	-	-	-	-	78	-	-	-	-	-	-	-	
	8/12/2008	-	-	-	-	-	39.4	-	-	-	-	-	-	-	
	9/2/2009	-	-	-	-	-	68.5 J	-	-	-	-	-	-	-	
	8/31/2010	-	-	-	-	-	33.7	-	-	-	-	-	-	-	
12/13/2013	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
TW-14	3/21/2006	-	-	-	-	-	55	-	-	-	-	-	-	-	
TW-15	3/21/2006	-	-	-	-	-	270	-	-	-	-	-	-	-	
TW-16	3/21/2006	-	-	-	-	-	< 100	-	-	-	-	-	-	-	
TW-17	3/21/2006	-	-	-	-	-	1000	-	-	-	-	-	-	-	
TW-18	3/21/2006	-	-	-	-	-	560	-	-	-	-	-	-	-	
TW-19	3/22/2006	-	-	-	-	-	1300	-	-	-	-	-	-	-	
TW-20	3/22/2006	-	-	-	-	-	3800	-	-	-	-	-	-	-	
TW-21	3/23/2006	-	-	-	-	-	16	-	-	-	-	-	-	-	
TW-22	3/23/2006	-	-	-	-	-	36	-	-	-	-	-	-	-	
TW-23	3/23/2006	-	-	-	-	-	< 100	-	-	-	-	-	-	-	
TW-24	3/23/2006	-	-	-	-	-	18	-	-	-	-	-	-	-	
TW-25	5/26/2006	-	-	-	-	-	< 50	-	-	-	-	-	-	-	
	8/15/2007	-	-	-	-	-	< 200	-	-	-	-	-	-	-	
	5/21/2008	-	-	-	-	-	< 500	-	-	-	-	-	-	-	
	9/1/2009	-	-	-	-	-	< 100	-	-	-	-	-	-	-	
	8/31/2010	-	-	-	-	-	< 100	-	-	-	-	-	-	-	
	12/12/2013	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
10/30/2014	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1	1.2	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	
TW-26	5/26/2006	-	-	-	-	-	7.8	-	-	-	-	-	-	-	
TW-27	5/26/2006	-	-	-	-	-	< 1	-	-	-	-	-	-	-	
	8/15/2007	-	-	-	-	-	< 1	-	-	-	-	-	-	-	
	5/21/2008	-	-	-	-	-	< 1	-	-	-	-	-	-	-	
	9/1/2009	-	-	-	-	-	< 1	-	-	-	-	-	-	-	
	8/31/2010	-	-	-	-	-	< 1	-	-	-	-	-	-	-	
12/12/2013	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TW-28	5/26/2006	-	-	-	-	-	3	-	-	-	-	-	-	-	
TW-29	4/25/2007	-	-	-	-	-	96	-	-	-	-	-	-	-	
	5/21/2008	-	-	-	-	-	47.4	-	-	-	-	-	-	-	
	9/28/2009	-	-	-	-	-	131	-	-	-	-	-	-	-	
	8/31/2010	-	-	-	-	-	166	-	-	-	-	-	-	-	
	12/12/2013	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	12/12/2013	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
10/30/2014	9	2.7	< 1.0	< 1.0	58	33	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TW-30	4/25/2007	-	-	-	-	-	< 1	-	-	-	-	-	-	-	
	8/16/2007	-	-	-	-	-	< 1	-	-	-	-	-	-	-	
TW-31	4/25/2007	-	-	-	-	-	< 1	-	-	-	-	-	-	-	
	12/12/2013	< 1.0	< 1.0	< 1.0	< 1.0	2.1	2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TW-32	4/25/2007	-	-	-	-	-	< 20	-	-	-	-	-	-	-	
	12/13/2013	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Table 4 - Summary of Groundwater Analytical Data - VOCs

Final Compliance Status Report
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Savannah, Georgia

Analyte Unit		1,3-Dichlorobenzene ug/l	1,4-Dichlorobenzene ug/l	1,4-Dioxane ug/l	2-Butanone ug/l	2-Hexanone ug/l	4-Methyl-2-pentanone ug/l	Acetone ug/l	Benzene ug/l	Bromochloromethane ug/l	Bromodichloromethane ug/l	Bromoform ug/l	Bromomethane ug/l	Carbon Disulfide ug/l	Carbon Tetrachloride ug/l	Chlorobenzene ug/l	
Sample Location	Date Sampled																
GP-05-05	8/18/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GP-06-05	8/18/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01	8/1/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2/5/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/1/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/4/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/12/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/13/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/1/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/30/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12/13/2013	< 5.0	< 5.0	< 250	< 50	< 50	< 50	< 50	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 10	< 5.0	< 5.0	
MW-02	8/1/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2/5/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-03	8/1/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/1/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2/5/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/1/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/4/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/11/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/13/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/1/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/30/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-04	8/1/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2/5/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-06	10/1/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10/4/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2/5/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MW-06R	8/12/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		9/1/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		8/31/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/12/2013		< 1.0	< 1.0	< 50*	< 10	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
MW-07	10/1/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/19/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/30/2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08	10/1/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/19/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2/5/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	5/20/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/1/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/31/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/12/2013	< 1.0	< 1.0	< 50	< 10	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
MW-09	11/1/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/19/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/1/2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 4 - Summary of Groundwater Analytical Data - VOCs

Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

Analyte		1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	2-Butanone	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	
Unit		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
Sample Location	Date Sampled																
MW-09D	11/1/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/29/2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/30/2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10/1/2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2/5/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/12/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/1/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/1/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/11/2013	< 2.0	< 2.0	< 100	< 20	< 20	< 20	< 20	< 50	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 4.0	< 2.0	< 2.0
10/29/2014	< 2.0	< 2.0	< 200	< 20	< 20	< 20	< 20	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 4.0	< 2.0	< 2.0	
MW-10	9/29/2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10/1/2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-101D	4/19/2014	< 1.0	< 1.0	< 50	< 10	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	10/29/2014	< 1.0	< 1.0	< 100	< 10	< 10	< 10	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
MW-102D	4/19/2014	< 1.0	< 1.0	< 50	< 10	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	10/29/2014	< 1.0	< 1.0	< 100	< 10	< 10	< 10	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
MW-11 MW-11R	9/29/2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2/22/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/16/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/22/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10/27/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	5/18/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6/6/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6/19/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	7/3/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	7/16/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/15/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/1/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/11/2013	< 100	< 100	< 5000	< 1000	< 1000	< 1000	< 1000	< 2500	< 100	< 100	< 100	< 100	< 500	< 200	< 100	< 100
10/29/2014	< 100	< 100	< 10000	< 1000	< 1000	< 1000	< 1000	< 1000	< 100	< 100	< 100	< 100	< 500	< 200	< 100	< 100	
MW-11D	2/22/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-12 MW-12R	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2/22/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10/24/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/1/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/3/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/12/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	5/20/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/31/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/12/2013	< 200	< 200	< 10000	< 2000	< 2000	< 2000	< 2000	< 5000	< 200	< 200	< 200	< 200	< 1000	< 400	< 200	< 200
	12/12/2013	< 200	< 200	< 10000	< 2000	< 2000	< 2000	< 2000	< 5000	< 200	< 200	< 200	< 200	< 1000	< 400	< 200	< 200
10/29/2014	< 250	< 250	< 25000	< 2500	< 2500	< 2500	< 2500	< 2500	< 250	< 250	< 250	< 250	< 1300	< 500	< 250	< 250	
MW-12D	8/11/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/30/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/12/2013	< 5.0	< 5.0	< 250	< 50	< 50	< 50	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 10	< 5.0	< 5.0	
MW-13	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/29/2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2/5/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-14	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Table 4 - Summary of Groundwater Analytical Data - VOCs

Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

Analyte Unit		1,3-Dichlorobenzene ug/l	1,4-Dichlorobenzene ug/l	1,4-Dioxane ug/l	2-Butanone ug/l	2-Hexanone ug/l	4-Methyl-2-pentanone ug/l	Acetone ug/l	Benzene ug/l	Bromochloromethane ug/l	Bromodichloromethane ug/l	Bromoform ug/l	Bromomethane ug/l	Carbon Disulfide ug/l	Carbon Tetrachloride ug/l	Chlorobenzene ug/l	
Sample Location	Date Sampled																
MW-16	2/5/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	5/20/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/1/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-17	2/5/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-18	5/1/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	5/20/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/1/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/11/2013	< 1.0	< 1.0	< 50	< 10	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0
MW-19	5/1/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	5/20/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/1/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-20	10/24/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/31/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-24	5/20/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/3/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/1/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/11/2013	< 1.0	< 1.0	< 50	< 10	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0
MW-25	5/21/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/3/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/11/2013	< 1.0	< 1.0	< 50	< 10	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0
	10/30/2014	< 2.0	< 2.0	< 200	< 20	< 20	< 20	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 4.0	< 2.0	< 2.0
MW-26	5/20/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/11/2013	< 1.0	< 1.0	< 50	< 10	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0
MW-28	12/13/2013	< 1.0	< 1.0	< 50	< 10	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0
MW-29	8/12/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/1/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/11/2013	< 1.0	< 1.0	< 50	< 10	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0
MW-30	8/12/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/3/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/31/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/12/2013	< 200	< 200	< 10000	< 2000	< 2000	< 2000	< 5000	< 200	< 200	< 200	< 200	< 200	< 1000	< 400	< 200	< 200
	10/29/2014	< 500	< 500	< 50000	< 5000	< 5000	< 5000	< 5000	< 500	< 500	< 500	< 500	< 500	< 2500	< 1000	< 500	< 500
	10/29/2014	< 200	< 200	< 20000	< 2000	< 2000	< 2000	< 2000	< 200	< 200	< 200	< 200	< 200	< 1000	< 400	< 200	< 200
MW-31	8/11/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/31/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-32	8/12/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/3/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/1/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	8/11/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/12/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/31/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 4 - Summary of Groundwater Analytical Data - VOCs

Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

Analyte		1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	2-Butanone	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene
Unit		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Sample Location	Date Sampled															
MW-34	8/11/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/31/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/12/2013	< 5.0	< 5.0	< 250	< 50	< 50	< 50	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 10	< 5.0	< 5.0
MW-35	8/11/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/1/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/31/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-36D	8/11/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/1/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/31/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TW-01	8/17/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/22/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10/27/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5/18/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6/19/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/16/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/15/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/11/2013	< 50	< 50	< 2500	< 500	< 500	< 500	< 1300	< 50	< 50	< 50	< 50	< 250	< 100	< 50	< 50
12/11/2013	< 50	< 50	< 2500	< 500	< 500	< 500	< 1300	< 50	< 50	< 50	< 50	< 250	< 100	< 50	< 50	
TW-02	8/17/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/22/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10/27/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5/18/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6/19/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/16/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/15/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TW-03	8/17/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/22/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10/27/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5/18/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6/19/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/16/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/15/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/11/2013	< 1.0	< 1.0	< 50	< 10	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
TW-04	8/17/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/22/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10/27/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5/18/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6/19/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/16/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/15/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/11/2013	< 1.0	< 1.0	< 50	< 10	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
TW-05	12/15/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TW-06	12/15/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/7/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TW-07	12/15/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/7/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/20/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TW-08	12/15/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/7/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TW-09	12/15/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/2/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/30/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 4 - Summary of Groundwater Analytical Data - VOCs

Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

Analyte Unit		1,3-Dichlorobenzene ug/l	1,4-Dichlorobenzene ug/l	1,4-Dioxane ug/l	2-Butanone ug/l	2-Hexanone ug/l	4-Methyl-2-pentanone ug/l	Acetone ug/l	Benzene ug/l	Bromochloromethane ug/l	Bromodichloromethane ug/l	Bromoform ug/l	Bromomethane ug/l	Carbon Disulfide ug/l	Carbon Tetrachloride ug/l	Chlorobenzene ug/l	
Sample Location	Date Sampled																
TW-10	12/15/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-11	12/15/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12	3/20/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/12/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/1/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	3/20/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/12/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/31/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/13/2013	< 50	< 50	< 2500	< 500	< 500	< 500	< 1300	< 50	< 50	< 50	< 50	< 250	< 100	< 50	< 50	
TW-14	3/21/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-15	3/21/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-16	3/21/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-17	3/21/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-18	3/21/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-19	3/22/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-20	3/22/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-21	3/23/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-22	3/23/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-23	3/23/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-24	3/23/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-25	5/26/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/15/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	5/21/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/1/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/31/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		12/12/2013	< 1.0	< 1.0	< 50	< 10	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0
	10/30/2014	< 1.0	< 1.0	< 100	< 10	< 10	< 10	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
TW-26	5/26/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-27	5/26/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/15/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	5/21/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/1/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/31/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/12/2013	< 1.0	< 1.0	< 50	< 10	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
TW-28	5/26/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-29	4/25/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	5/21/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/28/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/31/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		12/12/2013	< 10	< 10	< 500	< 100	< 100	< 100	< 250	< 10	< 10	< 10	< 10	< 50	< 20	< 10	< 10
		12/12/2013	< 1.0	< 1.0	< 50	< 10	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0
	10/30/2014	< 1.0	< 1.0	< 100	< 10	< 10	< 10	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
TW-30	4/25/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8/16/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-31	4/25/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/12/2013	< 1.0	< 1.0	< 50	< 10	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
TW-32	4/25/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/13/2013	< 2.0	< 2.0	< 100	< 20	< 20	< 20	150	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 4.0	< 2.0	< 2.0	

Table 4 - Summary of Groundwater Analytical Data - VOCs

Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

Analyte		Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cumene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethyl Benzene	m,p-xylene	Methyl Acetate	Methyl tert-butyl ether	Methylcyclohexane
Unit		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Sample Location	Date Sampled														
GP-05-05	8/18/2005	-	-	-	3110	-	-	-	-	-	-	-	-	-	-
GP-06-05	8/18/2005	-	-	-	3090	-	-	-	-	-	-	-	-	-	-
MW-01	8/1/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/5/2005	-	-	-	20	-	-	-	-	-	-	-	-	-	-
	11/1/2007	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-
	11/4/2007	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-
	11/12/2007	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-
	8/13/2008	-	-	-	13	-	-	-	-	-	-	-	-	-	-
	9/1/2009	-	-	-	12.4	-	-	-	-	-	-	-	-	-	-
	8/30/2010	-	-	-	55.1	-	-	-	-	-	-	-	-	-	-
12/13/2013	< 25	< 5.0	< 5.0	41	< 5.0	< 5.0	630	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 50	< 5.0	
MW-02	8/1/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/5/2005	-	-	-	100	-	-	-	-	-	-	-	-	-	-
MW-03	8/1/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/1/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/5/2005	-	-	-	5	-	-	-	-	-	-	-	-	-	-
	11/1/2007	-	-	-	1	-	-	-	-	-	-	-	-	-	-
	11/4/2007	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-
	11/11/2007	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-
	8/13/2008	-	-	-	1.1	-	-	-	-	-	-	-	-	-	-
	9/1/2009	-	-	-	2.8	-	-	-	-	-	-	-	-	-	-
8/30/2010	-	-	-	17	-	-	-	-	-	-	-	-	-	-	
MW-04	8/1/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/5/2005	-	-	-	< 5	-	-	-	-	-	-	-	-	-	-
MW-06	10/1/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10/4/2004	-	-	-	90	-	-	-	-	-	-	-	-	-	-
	2/5/2005	-	-	-	35	-	-	-	-	-	-	-	-	-	-
MW-06R	8/12/2008	-	-	-	11.6	-	-	-	-	-	-	-	-	-	-
	9/1/2009	-	-	-	0.77	-	-	-	-	-	-	-	-	-	-
	8/31/2010	-	-	-	0.5	-	-	-	-	-	-	-	-	-	-
	12/12/2013	< 5.0	< 1.0	< 1.0	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 1.0
MW-07	10/1/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/19/2001	-	-	-	< 5	-	-	-	-	-	-	-	-	-	-
	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/30/2003	-	-	-	32 J	-	-	-	-	-	-	-	-	-	-
MW-08	10/1/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/19/2001	-	-	-	21	-	-	-	-	-	-	-	-	-	-
	2/5/2005	-	-	-	11	-	-	-	-	-	-	-	-	-	-
	5/20/2008	-	-	-	2.3	-	-	-	-	-	-	-	-	-	-
	9/1/2009	-	-	-	1.4	-	-	-	-	-	-	-	-	-	-
	8/31/2010	-	-	-	0.99	-	-	-	-	-	-	-	-	-	-
	12/12/2013	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 1.0
MW-09	11/1/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/19/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/1/2003	-	-	-	< 5	-	-	-	-	-	-	-	-	-	-

Table 4 - Summary of Groundwater Analytical Data - VOCs
Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

Sample Location	Date Sampled	Analyte	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cumene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethyl Benzene	m,p-xylene	Methyl Acetate	Methyl tert-butyl ether	Methylcyclohexane	
		Unit	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MW-09D	11/1/2001	-	-	-	< 5	-	-	-	-	-	-	-	-	-	-	-	
	9/29/2003	-	-	-	10000	-	-	-	-	-	-	-	-	-	-	-	
	9/30/2003	-	-	-	26 J	-	-	-	-	-	-	-	-	-	-	-	
	10/1/2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2/5/2005	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	
	8/12/2008	-	-	-	34	-	-	-	-	-	-	-	-	-	-	-	
	9/1/2009	-	-	-	27.5	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2009	-	-	-	27.5	-	-	-	-	-	-	-	-	-	-	-	
	9/1/2010	-	-	-	50.5	-	-	-	-	-	-	-	-	-	-	-	
	12/11/2013	< 10	< 2.0	< 2.0*	42	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 20	< 2.0	
10/29/2014	< 10	< 2.0	< 2.0	47	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 20	< 2.0		
MW-10	9/29/2003	-	-	-	< 5	-	-	-	-	-	-	-	-	-	-	-	
	10/1/2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-101D	4/19/2014	< 5.0	< 1.0	< 1.0	3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 1.0	
	10/29/2014	< 5.0	< 1.0	< 1.0	14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10	< 1.0	
MW-102D	4/19/2014	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 1.0	
	10/29/2014	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10	< 1.0	
MW-11	9/29/2003	-	-	-	10000	-	-	-	-	-	-	-	-	-	-	-	
MW-11R	2/22/2005	-	-	-	13000	-	-	-	-	-	-	-	-	-	-	-	
	9/16/2005	-	-	-	4300	-	-	-	-	-	-	-	-	-	-	-	
	9/22/2005	-	-	-	1740	-	-	-	-	-	-	-	-	-	-	-	
	10/27/2005	-	-	-	9450	-	-	-	-	-	-	-	-	-	-	-	
	5/18/2007	-	-	-	7000	-	-	-	-	-	-	-	-	-	-	-	
	6/6/2007	-	-	-	6400	-	-	-	-	-	-	-	-	-	-	-	
	6/19/2007	-	-	-	4800	-	-	-	-	-	-	-	-	-	-	-	
	7/3/2007	-	-	-	1900	-	-	-	-	-	-	-	-	-	-	-	
	7/16/2007	-	-	-	1200	-	-	-	-	-	-	-	-	-	-	-	
	8/15/2007	-	-	-	650	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2009	-	-	-	4290	-	-	-	-	-	-	-	-	-	-	-	
	9/1/2010	-	-	-	5570	-	-	-	-	-	-	-	-	-	-	-	
	12/11/2013	< 500	< 100	< 100	4900	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 200	< 100	< 1000	< 100	
	10/29/2014	< 500	< 100	< 100	11000	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 500	< 1000	< 100	
MW-11D	2/22/2005	-	-	-	< 5	-	-	-	-	-	-	-	-	-	-	-	
MW-12	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2/22/2005	-	-	-	92	-	-	-	-	-	-	-	-	-	-	-	
	10/24/2007	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	
	11/1/2007	-	-	-	17	-	-	-	-	-	-	-	-	-	-	-	
	11/3/2007	-	-	-	< 5	-	-	-	-	-	-	-	-	-	-	-	
	11/12/2007	-	-	-	5.6	-	-	-	-	-	-	-	-	-	-	-	
	5/20/2008	-	-	-	4.9	-	-	-	-	-	-	-	-	-	-	-	
	MW-12R	8/31/2010	-	-	-	< 1000	-	-	-	-	-	-	-	-	-	-	-
		12/12/2013	< 1000	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 400	< 200	< 2000	< 200
		12/12/2013	< 1000	< 200	< 200	200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 400	< 200	< 2000	< 200
10/29/2014		< 1300	< 250	< 250	370	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 1300	< 2500	< 250	
MW-12D	8/11/2008	-	-	-	19	-	-	-	-	-	-	-	-	-	-	-	
	9/2/2009	-	-	-	1.8 J	-	-	-	-	-	-	-	-	-	-	-	
	8/30/2010	-	-	-	1.4	-	-	-	-	-	-	-	-	-	-	-	
	12/12/2013	< 25	< 5.0	< 5.0	6.1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 50	< 5.0	
MW-13	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/29/2003	-	-	-	2.2	-	-	-	-	-	-	-	-	-	-	-	
	2/5/2005	-	-	-	< 5	-	-	-	-	-	-	-	-	-	-	-	
MW-14	9/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

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Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

Analyte		Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cumene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethyl Benzene	m,p-xylene	Methyl Acetate	Methyl tert-butyl ether	Methylcyclohexane
Unit		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Sample Location	Date Sampled														
MW-16	2/5/2005	-	-	-	< 5	-	-	-	-	-	-	-	-	-	-
	5/20/2008	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-
	9/2/2009	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-
	9/1/2010	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-
MW-17	2/5/2005	-	-	-	< 5	-	-	-	-	-	-	-	-	-	
MW-18	5/1/2005	-	-	-	22	-	-	-	-	-	-	-	-	-	-
	5/20/2008	-	-	-	29.2	-	-	-	-	-	-	-	-	-	-
	9/2/2009	-	-	-	50.5	-	-	-	-	-	-	-	-	-	-
	9/1/2010	-	-	-	72.2	-	-	-	-	-	-	-	-	-	-
	12/11/2013	< 5.0	< 1.0	< 1.0	6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 1.0
MW-19	5/1/2005	-	-	-	< 5	-	-	-	-	-	-	-	-	-	-
	5/20/2008	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-
	9/2/2009	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-
	9/1/2010	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-
MW-20	10/24/2007	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-
	9/2/2009	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-
	8/31/2010	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-
MW-24	5/20/2008	-	-	-	35.7	-	-	-	-	-	-	-	-	-	-
	9/3/2009	-	-	-	42	-	-	-	-	-	-	-	-	-	-
	9/1/2010	-	-	-	53.4	-	-	-	-	-	-	-	-	-	-
	12/11/2013	< 5.0	< 1.0	< 1.0	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 1.0
MW-25	5/21/2008	-	-	-	194	-	-	-	-	-	-	-	-	-	-
	9/3/2009	-	-	-	93.9 J	-	-	-	-	-	-	-	-	-	-
	9/2/2010	-	-	-	193	-	-	-	-	-	-	-	-	-	-
	12/11/2013	< 5.0	< 1.0	< 1.0	4.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 1.0
	10/30/2014	< 10	< 2.0	< 2.0	11	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 20	< 2.0
MW-26	5/20/2008	-	-	-	175	-	-	-	-	-	-	-	-	-	-
	9/2/2009	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-
	9/2/2010	-	-	-	77.4	-	-	-	-	-	-	-	-	-	-
	12/11/2013	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 1.0
MW-28	12/13/2013	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 1.0
MW-29	8/12/2008	-	-	-	8.9	-	-	-	-	-	-	-	-	-	-
	9/2/2009	-	-	-	19	-	-	-	-	-	-	-	-	-	-
	9/1/2010	-	-	-	3.1	-	-	-	-	-	-	-	-	-	-
	12/11/2013	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 1.0
MW-30	8/12/2008	-	-	-	6930	-	-	-	-	-	-	-	-	-	-
	9/3/2009	-	-	-	6750	-	-	-	-	-	-	-	-	-	-
	8/31/2010	-	-	-	9100	-	-	-	-	-	-	-	-	-	-
	12/12/2013	< 1000	< 200	< 200	9300	< 200	< 200	< 200	< 200	< 200	< 200	< 400	< 200	< 2000	< 200
	10/29/2014	< 2500	< 500	< 500	11000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 2500	< 5000	< 500
	10/29/2014	< 1000	< 200	< 200	12000	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 1000	< 2000	< 200
MW-31	8/11/2008	-	-	-	82.4	-	-	-	-	-	-	-	-	-	-
	9/2/2009	-	-	-	35.4	-	-	-	-	-	-	-	-	-	-
	8/31/2010	-	-	-	28.7	-	-	-	-	-	-	-	-	-	-
MW-32	8/12/2008	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-
	9/3/2009	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-
	9/1/2010	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-
MW-33	8/11/2008	-	-	-	7.1	-	-	-	-	-	-	-	-	-	-
	8/12/2008	-	-	-	7.1	-	-	-	-	-	-	-	-	-	-
	9/2/2009	-	-	-	5.5	-	-	-	-	-	-	-	-	-	-
	8/31/2010	-	-	-	9.3	-	-	-	-	-	-	-	-	-	-

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Savannah, Georgia

Sample Location	Analyte	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cumene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethyl Benzene	m,p-xylene	Methyl Acetate	Methyl tert-butyl ether	Methylcyclohexane
	Unit	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MW-34	Date Sampled														
	8/11/2008	-	-	-	344	-	-	-	-	-	-	-	-	-	-
	8/31/2010	-	-	-	138	-	-	-	-	-	-	-	-	-	-
MW-35	12/12/2013	< 25	< 5.0	< 5.0	140	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 50	< 5.0
	8/11/2008	-	-	-	4850	-	-	-	-	-	-	-	-	-	-
	9/1/2009	-	-	-	3590	-	-	-	-	-	-	-	-	-	-
MW-36D	8/31/2010	-	-	-	4110	-	-	-	-	-	-	-	-	-	-
	8/11/2008	-	-	-	11	-	-	-	-	-	-	-	-	-	-
	9/1/2009	-	-	-	18.9	-	-	-	-	-	-	-	-	-	-
TW-01	8/31/2010	-	-	-	9.7	-	-	-	-	-	-	-	-	-	-
	8/17/2005	-	-	-	7820	-	-	-	-	-	-	-	-	-	-
	9/22/2005	-	-	-	7280	-	-	-	-	-	-	-	-	-	-
	10/27/2005	-	-	-	12400	-	-	-	-	-	-	-	-	-	-
	5/18/2007	-	-	-	7000	-	-	-	-	-	-	-	-	-	-
	6/19/2007	-	-	-	3400	-	-	-	-	-	-	-	-	-	-
	7/16/2007	-	-	-	4000	-	-	-	-	-	-	-	-	-	-
	8/15/2007	-	-	-	4700	-	-	-	-	-	-	-	-	-	-
	12/11/2013	< 250	52	< 50	4200	< 50	< 50*	< 50	< 50	< 50	< 50	< 100	< 50	< 500	< 50
12/11/2013	< 250	50	< 50	3600	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 50	< 500	< 50	
TW-02	8/17/2005	-	-	-	2670	-	-	-	-	-	-	-	-	-	-
	9/22/2005	-	-	-	1470	-	-	-	-	-	-	-	-	-	-
	10/27/2005	-	-	-	3460	-	-	-	-	-	-	-	-	-	-
	5/18/2007	-	-	-	1000	-	-	-	-	-	-	-	-	-	-
	6/19/2007	-	-	-	310	-	-	-	-	-	-	-	-	-	-
	7/16/2007	-	-	-	200	-	-	-	-	-	-	-	-	-	-
TW-03	8/15/2007	-	-	-	130	-	-	-	-	-	-	-	-	-	-
	8/17/2005	-	-	-	116	-	-	-	-	-	-	-	-	-	-
	9/22/2005	-	-	-	376	-	-	-	-	-	-	-	-	-	-
	10/27/2005	-	-	-	91.8	-	-	-	-	-	-	-	-	-	-
	5/18/2007	-	-	-	190	-	-	-	-	-	-	-	-	-	-
	6/19/2007	-	-	-	250	-	-	-	-	-	-	-	-	-	-
	7/16/2007	-	-	-	160	-	-	-	-	-	-	-	-	-	-
8/15/2007	-	-	-	270	-	-	-	-	-	-	-	-	-	-	
12/11/2013	< 5.0	< 1.0	< 1.0	2.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 1.0	
TW-04	8/17/2005	-	-	-	1880	-	-	-	-	-	-	-	-	-	-
	9/22/2005	-	-	-	1140	-	-	-	-	-	-	-	-	-	-
	10/27/2005	-	-	-	7660	-	-	-	-	-	-	-	-	-	-
	5/18/2007	-	-	-	1900	-	-	-	-	-	-	-	-	-	-
	6/19/2007	-	-	-	140	-	-	-	-	-	-	-	-	-	-
	7/16/2007	-	-	-	210	-	-	-	-	-	-	-	-	-	-
	8/15/2007	-	-	-	710	-	-	-	-	-	-	-	-	-	-
12/11/2013	< 5.0	< 1.0	10	69	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 1.0	
TW-05	12/15/2005	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-
TW-06	12/15/2005	-	-	-	187	-	-	-	-	-	-	-	-	-	-
	3/7/2006	-	-	-	190	-	-	-	-	-	-	-	-	-	-
TW-07	12/15/2005	-	-	-	5180	-	-	-	-	-	-	-	-	-	-
	3/7/2006	-	-	-	21000	-	-	-	-	-	-	-	-	-	-
	3/20/2006	-	-	-	12000	-	-	-	-	-	-	-	-	-	-
TW-08	12/15/2005	-	-	-	644	-	-	-	-	-	-	-	-	-	-
	3/7/2006	-	-	-	160	-	-	-	-	-	-	-	-	-	-
TW-09	12/15/2005	-	-	-	112	-	-	-	-	-	-	-	-	-	-
	9/2/2009	-	-	-	10.1	-	-	-	-	-	-	-	-	-	-
	8/30/2010	-	-	-	8.2	-	-	-	-	-	-	-	-	-	-

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Sample Location	Date Sampled	Analyte	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cumene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethyl Benzene	m,p-xylene	Methyl Acetate	Methyl tert-butyl ether	Methylcyclohexane
		Unit	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
TW-10	12/15/2005	-	-	-	76.8	-	-	-	-	-	-	-	-	-	-	-
TW-11	12/15/2005	-	-	-	148	-	-	-	-	-	-	-	-	-	-	-
TW-12	3/20/2006	-	-	-	< 50	-	-	-	-	-	-	-	-	-	-	-
	8/12/2008	-	-	-	3.5	-	-	-	-	-	-	-	-	-	-	-
	9/2/2009	-	-	-	3.1 J	-	-	-	-	-	-	-	-	-	-	-
	9/1/2010	-	-	-	< 10	-	-	-	-	-	-	-	-	-	-	-
TW-13	3/20/2006	-	-	-	6000	-	-	-	-	-	-	-	-	-	-	-
	8/12/2008	-	-	-	4190	-	-	-	-	-	-	-	-	-	-	-
	9/2/2009	-	-	-	4530	-	-	-	-	-	-	-	-	-	-	-
	8/31/2010	-	-	-	5990	-	-	-	-	-	-	-	-	-	-	-
	12/13/2013	< 250	< 50	< 50	5000	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 50	< 500	< 50
TW-14	3/21/2006	-	-	-	160	-	-	-	-	-	-	-	-	-	-	-
TW-15	3/21/2006	-	-	-	210	-	-	-	-	-	-	-	-	-	-	-
TW-16	3/21/2006	-	-	-	160	-	-	-	-	-	-	-	-	-	-	-
TW-17	3/21/2006	-	-	-	8300	-	-	-	-	-	-	-	-	-	-	-
TW-18	3/21/2006	-	-	-	150	-	-	-	-	-	-	-	-	-	-	-
TW-19	3/22/2006	-	-	-	180	-	-	-	-	-	-	-	-	-	-	-
TW-20	3/22/2006	-	-	-	160	-	-	-	-	-	-	-	-	-	-	-
TW-21	3/23/2006	-	-	-	210	-	-	-	-	-	-	-	-	-	-	-
TW-22	3/23/2006	-	-	-	200	-	-	-	-	-	-	-	-	-	-	-
TW-23	3/23/2006	-	-	-	6200	-	-	-	-	-	-	-	-	-	-	-
TW-24	3/23/2006	-	-	-	1200	-	-	-	-	-	-	-	-	-	-	-
TW-25	5/26/2006	-	-	-	250	-	-	-	-	-	-	-	-	-	-	-
	8/15/2007	-	-	-	< 200	-	-	-	-	-	-	-	-	-	-	-
	5/21/2008	-	-	-	301	-	-	-	-	-	-	-	-	-	-	-
	9/1/2009	-	-	-	279	-	-	-	-	-	-	-	-	-	-	-
	8/31/2010	-	-	-	161	-	-	-	-	-	-	-	-	-	-	-
	12/12/2013	< 5.0	< 1.0	< 1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 1.0
10/30/2014	< 5.0	1.2	< 1.0	55	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10	< 1.0	
TW-26	5/26/2006	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-
TW-27	5/26/2006	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-
	8/15/2007	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-
	5/21/2008	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-
	9/1/2009	-	-	-	0.89 J	-	-	-	-	-	-	-	-	-	-	-
	8/31/2010	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-
12/12/2013	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 1.0	
TW-28	5/26/2006	-	-	-	6.8	-	-	-	-	-	-	-	-	-	-	-
TW-29	4/25/2007	-	-	-	6100	-	-	-	-	-	-	-	-	-	-	-
	5/21/2008	-	-	-	4360	-	-	-	-	-	-	-	-	-	-	-
	9/28/2009	-	-	-	6650	-	-	-	-	-	-	-	-	-	-	-
	8/31/2010	-	-	-	3610	-	-	-	-	-	-	-	-	-	-	-
	12/12/2013	< 50	< 10	< 10	610	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 100	< 10
	12/12/2013	< 5.0	< 1.0	< 1.0	67	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 1.0
10/30/2014	< 5.0	3.7	8.4	7200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10	< 1.0	
TW-30	4/25/2007	-	-	-	2.1	-	-	-	-	-	-	-	-	-	-	-
	8/16/2007	-	-	-	< 1	-	-	-	-	-	-	-	-	-	-	-
TW-31	4/25/2007	-	-	-	64	-	-	-	-	-	-	-	-	-	-	-
	12/12/2013	< 5.0	5.6	< 1.0	180	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 1.0
TW-32	4/25/2007	-	-	-	74	-	-	-	-	-	-	-	-	-	-	-
	12/13/2013	< 10	< 2.0	< 2.0	45	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 20	< 2.0

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Analyte Unit		Methylene Chloride ug/l	ortho-xylene ug/l	Styrene ug/l	Tetrachloroethene ug/l	Toluene ug/l	trans- 1,2-Dichloroethene ug/l	trans- 1,3-Dichloropropene ug/l	Trichloroethene ug/l	Trichlorofluoromethane ug/l	Vinyl Chloride ug/l
Sample Location	Date Sampled										
GP-05-05	8/18/2005	-	-	-	5100	-	13.6	-	1110	-	105
GP-06-05	8/18/2005	-	-	-	13400	-	5.99	-	1670	-	116
MW-01	8/1/1998	-	-	-	-	-	-	-	280	-	-
	9/2/2002	-	-	-	-	-	-	-	<5	-	-
	2/5/2005	-	-	-	<5	-	<5	-	<5	-	7
	11/1/2007	<5	-	-	180	-	<1	-	27	-	<1
	11/4/2007	<5	-	-	0.066	-	<1	-	0.0066	-	<1
	11/12/2007	<5	-	-	0.03	-	<1	-	0.0043	-	<1
	8/13/2008	<5	-	-	<1	-	<1	-	0.62	-	8.7
	9/1/2009	<5	-	-	3.2	-	<1	-	0.42 J	-	<1
	8/30/2010	<5	-	-	<1	-	<1	-	1.4	-	25.2
12/13/2013	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	10	
MW-02	8/1/1998	<5	-	-	-	-	-	-	3900	-	-
	9/2/2002	-	-	-	-	-	-	-	170	-	-
	2/5/2005	-	-	-	1800	-	<5	-	2000	-	33
MW-03	8/1/1998	<5	-	-	-	-	-	-	43	-	-
	8/1/1998	<5	-	-	-	-	-	-	34	-	-
	2/5/2005	-	-	-	100	-	<5	-	37	-	<2
	11/1/2007	<5	-	-	180	-	<1	-	27	-	<1
	11/4/2007	<5	-	-	66	-	<1	-	6.4	-	<1
	11/11/2007	<5	-	-	30	-	<1	-	4.3	-	<1
	8/13/2008	<5	-	-	114	-	<1	-	13.9	-	<1
	9/1/2009	<5	-	-	103	-	<1	-	23.8	-	<1
8/30/2010	<5	-	-	323	-	0.45	-	242	-	0.47	
MW-04	8/1/1998	17	-	-	-	-	-	-	9.1	-	-
	2/5/2005	-	-	-	87	-	<5	-	46	-	<2
MW-06	10/1/2001	<10	-	-	-	-	-	-	180	-	-
	9/2/2002	-	-	-	-	-	-	-	270	-	-
	10/4/2004	<5	-	-	130	-	58 J	-	240	-	50 J
MW-06R	2/5/2005	-	-	-	110	-	<5	-	140	-	3
	8/12/2008	<5	-	-	58	-	<1	-	60.5	-	0.57
	9/1/2009	<5	-	-	2.4	-	<1	-	2	-	<1
	8/31/2010	<5	-	-	2.3	-	<1	-	1.6	-	<1
	12/12/2013	<5.0	<1.0	<1.0	2.2	<1.0	<1.0	<1.0	2.7	<1.0	<1.0
MW-07	10/1/2001	<10	-	-	-	-	-	-	180	-	-
	11/19/2001	<5	-	-	<5	-	<5	-	<5	-	<10
	9/2/2002	-	-	-	-	-	-	-	270	-	-
	9/30/2003	<5	-	-	74 J	-	<5	-	<530	-	12 J
MW-08	10/1/2001	-	-	-	-	-	-	-	<5	-	-
	11/19/2001	<12	-	-	290	-	<12	-	410	-	<25
	2/5/2005	-	-	-	83	-	<5	-	100	-	<5
	5/20/2008	<5	-	-	22.8	-	<1	-	25.2	-	0.57
	9/1/2009	<5	-	-	12.2	-	<1	-	15.6	-	<1
	8/31/2010	<5	-	-	9.3	-	<1	-	8.4	-	<1
	12/12/2013	<5.0	<1.0	<1.0	4	<1.0	<1.0	<1.0	2.8	<1.0	<1.0
MW-09	11/1/2001	-	-	-	-	-	-	-	410	-	-
	9/19/2002	-	-	-	-	-	-	-	170	-	-
	11/1/2003	<5	-	-	<5	-	<5	-	<5	-	<5

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Sample Location	Analyte	Methylene Chloride	ortho-xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	
	Unit	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
MW-09D	Date Sampled											
	11/1/2001	< 5	-	-	6.8	-	< 5	-	< 5	-	< 10	
	9/29/2003	180	-	-	55000	-	500	-	6700	-	350	
	9/30/2003	< 5	-	-	32	-	< 5	-	5.7	-	35 J	
	10/1/2003	-	-	-	-	-	-	-	< 1	-	-	
	2/5/2005	-	-	-	55	-	< 5	-	13	-	< 2	
	8/12/2008	9.6	-	-	211	-	< 2	-	31.7	-	6.6	
	9/1/2009	< 5	-	-	275	-	9.6	-	26.9	-	5	
	9/2/2009	< 25	-	-	275	-	< 5	-	26.9	-	5	
	9/1/2010	< 25	-	-	265	-	< 5	-	36.9	-	6.6	
12/11/2013	< 10	< 2.0	< 2.0	180	< 2.0	< 2.0	< 2.0	30	< 2.0	4.7		
10/29/2014	< 10	< 2.0	< 2.0	200	< 2.0	< 2.0	< 2.0	31	< 2.0	8		
MW-10	9/29/2003	< 5	-	-	< 5	-	< 5	-	< 5	-	< 5	
	10/1/2003	-	-	-	-	-	-	-	< 1	-	-	
MW-101D	4/19/2014	< 5.0	< 1.0	< 1.0	33	< 1.0	< 1.0	< 1.0	3.2	< 1.0	< 1.0	
	10/29/2014	< 5.0	< 1.0	< 1.0	110	< 1.0	< 1.0	< 1.0	16	< 1.0	< 1.0	
MW-102D	4/19/2014	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/29/2014	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-11	9/29/2003	180	-	-	55000	-	500	-	6700	-	350	
MW-11R	2/22/2005	-	-	-	43000	-	40	-	6500	-	650	
	9/16/2005	-	-	-	20000	-	< 0.14	-	4200	-	380	
	9/22/2005	-	-	-	9980	-	16.3	-	1490	-	79.8	
	10/27/2005	-	-	-	20000	-	109	-	5930	-	317	
	5/18/2007	< 1000	-	-	29000	-	< 200	-	4100	-	< 200	
	6/6/2007	-	-	-	25000	-	< 200	-	3000	-	< 200	
	6/19/2007	< 1000	-	-	17000	-	< 200	-	1800	-	< 200	
	7/3/2007	< 250	-	-	4900	-	< 50	-	690	-	< 50	
	7/16/2007	< 25	-	-	4700	-	51	-	750	-	< 1.02	
	8/15/2007	< 120	-	-	2800	-	< 25	-	400	-	< 25	
	9/2/2009	< 5	-	-	17200	-	693	-	2420	-	176	
	9/1/2010	< 1300	-	-	18200	-	< 250	-	2900	-	218	
	12/11/2013	< 500	< 100	< 100	19000	< 100	210	< 100	3400	< 100	250	
10/29/2014	< 500	< 100	< 100	20000	< 100	170	< 100	4100	< 100	730		
MW-11D	2/22/2005	-	-	-	< 5	-	< 5	-	< 5	-	< 2	
MW-12	9/2/2002	-	-	-	-	-	-	-	6400	-	-	
	2/22/2005	-	-	-	29000	-	< 5	-	1100	-	10	
	10/24/2007	< 50	-	-	1100	-	< 10	-	45	-	< 1	
	11/1/2007	44	-	-	2000	-	< 10	-	35	-	< 10	
	11/3/2007	< 25	-	-	510	-	< 5	-	7.8	-	< 5	
	11/12/2007	< 25	-	-	970	-	< 5	-	12	-	< 5	
	5/20/2008	< 50	-	-	490	-	< 10	-	10.5	-	< 10	
	MW-12R	8/31/2010	< 5000	-	-	71700	-	< 1000	-	1960	-	< 1000
		12/12/2013	< 1000	< 200	< 200	19000	< 200	< 200	< 200	540	< 200	< 200
		12/12/2013	< 1000	< 200	< 200	18000	< 200	< 200	< 200	570	< 200	< 200
10/29/2014		< 1300	< 250	< 250	37000	< 250	< 250	< 250	750	< 250	< 250	
MW-12D	8/11/2008	3.5	-	-	123	-	< 0.45	-	10.8	-	< 1	
	9/2/2009	10.6 J	-	-	249	-	< 5	-	6	-	< 5	
	8/30/2010	4.2	-	-	142	-	< 2	-	3.8	-	< 2	
	12/12/2013	< 25	< 5.0	< 5.0	240	< 5.0	< 5.0	< 5.0	26	< 5.0	< 5.0	
MW-13	9/2/2002	-	-	-	-	-	-	-	170	-	-	
	9/29/2003	< 5	-	-	32	-	< 5	-	88	-	13 J	
	2/5/2005	-	-	-	26	-	< 5	-	56	-	2	
MW-14	9/2/2002	-	-	-	-	-	-	180	-	-		

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Analyte Unit		Methylene Chloride ug/l	ortho-xylene ug/l	Styrene ug/l	Tetrachloroethene ug/l	Toluene ug/l	trans-1,2-Dichloroethene ug/l	trans-1,3-Dichloropropene ug/l	Trichloroethene ug/l	Trichlorofluoromethane ug/l	Vinyl Chloride ug/l
Sample Location	Date Sampled										
MW-16	2/5/2005	-	-	-	< 5	-	< 5	-	< 5	-	< 2
	5/20/2008	< 5	-	-	< 1	-	< 1	-	< 1	-	< 1
	9/2/2009	< 5	-	-	< 1	-	< 1	-	< 1	-	< 1
	9/1/2010	< 5	-	-	< 1	-	< 1	-	< 1	-	< 1
MW-17	2/5/2005	-	-	-	< 5	-	< 5	-	< 5	-	< 2
MW-18	5/1/2005	-	-	-	< 5	-	< 5	-	7	-	5
	5/20/2008	< 25	-	-	183	-	< 5	-	28.3	-	3
	9/2/2009	3.2 J	-	-	38.1	-	0.54 J	-	24	-	10.7
	9/1/2010	3.6	-	-	80.6	-	< 1	-	34.9	-	8.4
	12/11/2013	< 5.0	< 1.0	< 1.0	11	< 1.0	< 1.0	< 1.0	3	< 1.0	< 1.0
MW-19	5/1/2005	-	-	-	< 5	-	< 5	-	< 5	-	< 2
	5/20/2008	< 5	-	-	< 1	-	< 1	-	< 1	-	< 1
	9/2/2009	< 5	-	-	< 1	-	< 1	-	< 1	-	< 1
	9/1/2010	< 5	-	-	< 1	-	< 1	-	< 1	-	< 1
MW-20	10/24/2007	< 5	-	-	< 1	-	< 1	-	< 1	-	< 1
	9/2/2009	< 5	-	-	0.83 J	-	< 1	-	< 1	-	< 1
	8/31/2010	< 5	-	-	< 1	-	< 1	-	< 1	-	< 1
MW-24	5/20/2008	2.6	-	-	31.7	-	< 1	-	14.1	-	9.4
	9/3/2009	1.1 J	-	-	97.9	-	< 1	-	28.5	-	7
	9/1/2010	< 5	-	-	85.2	-	< 1	-	27.4	-	11.5
	12/11/2013	< 5.0	< 1.0	< 1.0	120	< 1.0	< 1.0	< 1.0	8.3	< 1.0	2.2
MW-25	5/21/2008	< 1000	-	-	13300	-	< 200	-	3070	-	< 200
	9/3/2009	< 1000	-	-	18800	-	< 200	-	7970	-	< 200
	9/2/2010	< 500	-	-	12400	-	< 100	-	946	-	< 100
	12/11/2013	< 5.0	< 1.0	< 1.0	95	< 1.0	< 1.0	< 1.0	26	< 1.0	< 1.0
	10/30/2014	< 10	< 2.0	< 2.0	230	< 2.0	< 2.0	< 2.0	47	< 2.0	< 2.0
MW-26	5/20/2008	111	-	-	9110	-	< 100	-	3880	-	< 100
	9/2/2009	< 5	-	-	9.6	-	< 1	-	5.7	-	< 1
	9/2/2010	12.8	-	-	14600	-	< 5	-	4340	-	8
	12/11/2013	< 5.0	< 1.0	< 1.0	110	< 1.0	< 1.0	< 1.0	39	< 1.0	< 1.0
MW-28	12/13/2013	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-29	8/12/2008	3.5	-	-	10.6	-	< 1	-	4.8	-	< 1
	9/2/2009	< 5	-	-	33.1	-	1.9	-	11.4	-	< 1
	9/1/2010	< 5	-	-	6.8	-	< 1	-	2.1	-	< 1
	12/11/2013	< 5.0	< 1.0	< 1.0	2.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-30	8/12/2008	294	-	-	8330	-	< 100	-	3110	-	676
	9/3/2009	< 500	-	-	6520	-	120	-	2550	-	395
	8/31/2010	< 500	-	-	26200	-	< 100	-	4200	-	771
	12/12/2013	< 1000	< 200	< 200	23000	< 200	< 200	< 200	3700	< 200	570
	10/29/2014	< 2500	< 500	< 500	10000	< 500	< 500	< 500	3300	< 500	1600
	10/29/2014	< 1000	< 200	< 200	13000	< 200	< 200	< 200	3600	< 200	1600
MW-31	8/11/2008	66.3	-	-	2540	-	< 20	-	74.3	-	< 20
	9/2/2009	< 25	-	-	350	-	3.8 J	-	8.9	-	< 5
	8/31/2010	< 25	-	-	306	-	< 5	-	13.5	-	< 5
MW-32	8/12/2008	< 5	-	-	< 1	-	< 1	-	< 1	-	< 1
	9/3/2009	< 5	-	-	< 1	-	< 1	-	< 1	-	< 1
	9/1/2010	< 5	-	-	< 1	-	< 1	-	< 1	-	< 1
MW-33	8/11/2008	< 5	-	-	3.5	-	0.5	-	2	-	< 1
	8/12/2008	< 5	-	-	3.5	-	0.5	-	2	-	0.6
	9/2/2009	< 5	-	-	2.8	-	< 1	-	2.1	-	< 1
	8/31/2010	< 5	-	-	2.4	-	0.57	-	1.7	-	0.72

Table 4 - Summary of Groundwater Analytical Data - VOCs
Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

Sample Location	Analyte	Methylene Chloride	ortho-xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride
	Unit	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MW-34	Date Sampled										
	8/11/2008	37.5	-	-	829	-	< 10	-	362	-	< 10
	8/31/2010	< 5	-	-	705	-	2.5	-	327	-	4.4
	12/12/2013	< 25	< 5.0	< 5.0	410	< 5.0	5.3	< 5.0	460	< 5.0	< 5.0
MW-35	8/11/2008	< 1000	-	-	18700	-	< 200	-	8050	-	1310
	9/1/2009	< 1000	-	-	20900	-	< 200	-	9030	-	524
	8/31/2010	< 1300	-	-	19000	-	< 250	-	10100	-	311
MW-36D	8/11/2008	10.3	-	-	1280	-	< 10	-	297	-	< 10
	9/1/2009	< 50	-	-	1240	-	< 10	-	276	-	< 10
	8/31/2010	< 50	-	-	606	-	< 10	-	116	-	< 10
TW-01	8/17/2005	-	-	-	3820	-	41.2	-	1730	-	106
	9/22/2005	-	-	-	26700	-	40.5	-	4880	-	182
	10/27/2005	-	-	-	46900	-	90.6	-	8530	-	300
	5/18/2007	< 1000	-	-	20000	-	< 200	-	5000	-	< 200
	6/19/2007	< 500	-	-	11000	-	< 100	-	1900	-	< 100
	7/16/2007	< 100	-	-	9100	-	< 100	-	2800	-	< 500
	8/15/2007	< 500	-	-	12000	-	< 100	-	3300	-	< 100
	12/11/2013	< 250	< 50	< 50	4800	< 50	130	< 50	1400	< 50	< 50
	12/11/2013	< 250	< 50	< 50	5100	< 50	150	< 50	1500	< 50	< 50
TW-02	8/17/2005	-	-	-	3400	-	11.6	-	853	-	37.9
	9/22/2005	-	-	-	3560	-	7.7	-	668	-	10.6
	10/27/2005	-	-	-	8470	-	8.46	-	1770	-	14.1
	5/18/2007	< 50	-	-	1700	-	< 10	-	350	-	< 10
	6/19/2007	< 50	-	-	990	-	< 10	-	120	-	< 10
	7/16/2007	< 25	-	-	880	-	< 25	-	180	-	< 120
	8/15/2007	< 25	-	-	600	-	< 5	-	120	-	< 5
TW-03	8/17/2005	-	-	-	2390	-	1.24	-	1170	-	6.58
	9/22/2005	-	-	-	4100	-	1.57	-	1590	-	19.1
	10/27/2005	-	-	-	2570	-	< 1	-	4350	-	5.24
	5/18/2007	< 120	-	-	4200	-	< 250	-	3000	-	< 25
	6/19/2007	< 250	-	-	6500	-	< 50	-	2700	-	< 50
	7/16/2007	< 5	-	-	690	-	< 5	-	170	-	< 25
	8/15/2007	< 120	-	-	3400	-	< 25	-	830	-	< 25
	12/11/2013	< 5.0	< 1.0	< 1.0	130	< 1.0	< 1.0	< 1.0	56	< 1.0	< 1.0
TW-04	8/17/2005	-	-	-	18100	-	5.82	-	1360	-	86
	9/22/2005	-	-	-	4920	-	7.52	-	880	-	43.5
	10/27/2005	-	-	-	30600	-	41.8	-	4920	-	324
	5/18/2007	< 250	-	-	7700	-	< 50	-	1300	-	100
	6/19/2007	< 50	-	-	670	-	< 10	-	160	-	< 10
	7/16/2007	< 5	-	-	510	-	5.6	-	200	-	< 25
	8/15/2007	< 1	-	-	2800	-	< 20	-	890	-	< 20
	12/11/2013	< 5.0	< 1.0	< 1.0	84	< 1.0	8.6	< 1.0	95	< 1.0	< 1.0
TW-05	12/15/2005	-	-	-	< 1	-	< 1	-	< 1	-	< 1
TW-06	12/15/2005	-	-	-	210	-	2.11	-	614	-	1.65
	3/7/2006	-	-	-	330	-	1.9	-	640	-	2
TW-07	12/15/2005	-	-	-	15800	-	52.3	-	2460	-	785
	3/7/2006	-	-	-	92000	-	25	-	11000	-	1600
	3/20/2006	6000	-	-	42000	-	< 250	-	5400	-	780
TW-08	12/15/2005	-	-	-	1160	-	3.4	-	1330	-	10.6
	3/7/2006	-	-	-	120	-	< 1	-	120	-	< 1
TW-09	12/15/2005	-	-	-	33600	-	< 1	-	1510	-	8.35
	9/2/2009	1.4 J	-	-	101	-	1.6	-	18.9	-	< 1
	8/30/2010	5	-	-	100	-	< 2	-	13.3	-	< 200

Table 4 - Summary of Groundwater Analytical Data - VOCs
Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

Sample Location	Date Sampled	Analyte	Methylene Chloride	ortho-xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride
		Unit	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
TW-10	12/15/2005	-	-	-	-	15200	-	< 1	-	195	-	4.1
TW-11	12/15/2005	-	-	-	-	37800	-	3.15	-	1330	-	17.9
TW-12	3/20/2006	1100	-	-	-	5900	-	< 50	-	1400	-	< 50
	8/12/2008	285	-	-	-	738	-	< 10	-	243	-	47.4
	9/2/2009	65.3	-	-	-	726	-	< 10	-	280	-	29.8
	9/1/2010	34.4	-	-	-	194	-	< 10	-	75.7	-	16.4
TW-13	3/20/2006	910	-	-	-	8100	-	< 50	-	4400	-	780
	8/12/2008	182	-	-	-	7930	-	< 50	-	1100	-	498
	9/2/2009	103 J	-	-	-	12800	-	< 100	-	1300	-	385
	8/31/2010	< 500	-	-	-	6740	-	< 100	-	1300	-	606
	12/13/2013	< 250	< 50	< 50	< 50	3500	< 50	< 50	< 50	1000	< 50	630
TW-14	3/21/2006	900	-	-	-	3300	-	< 50	-	1400	-	< 50
TW-15	3/21/2006	1600	-	-	-	29000	-	< 50	-	7100	-	< 50
TW-16	3/21/2006	1500	-	-	-	7500	-	< 100	-	3300	-	< 100
TW-17	3/21/2006	1400	-	-	-	26000	-	< 100	-	5300	-	120
TW-18	3/21/2006	2300	-	-	-	20000	-	< 100	-	3700	-	< 100
TW-19	3/22/2006	4800	-	-	-	15000	-	< 100	-	8800	-	< 100
TW-20	3/22/2006	< 500	-	-	-	26000	-	< 100	-	15000	-	< 100
TW-21	3/23/2006	< 50	-	-	-	830	-	< 10	-	860	-	< 10
TW-22	3/23/2006	< 50	-	-	-	940	-	< 10	-	1100	-	14
TW-23	3/23/2006	< 500	-	-	-	8000	-	< 100	-	8100	-	1100
TW-24	3/23/2006	< 50	-	-	-	1200	-	< 10	-	9000	-	35
TW-25	5/26/2006	< 250	-	-	-	23000	-	< 50	-	210	-	< 50
	8/15/2007	< 1	-	-	-	31000	-	< 200	-	370	-	< 200
	5/21/2008	< 2500	-	-	-	27100	-	< 500	-	350	-	< 500
	9/1/2009	< 500	-	-	-	17200	-	< 100	-	361	-	< 100
	8/31/2010	< 500	-	-	-	8840	-	< 100	-	212	-	< 100
	12/12/2013	< 5.0	< 1.0	< 1.0	< 1.0	140	< 1.0	< 1.0	< 1.0	9.4	< 1.0	< 1.0
	10/30/2014	< 5.0	< 1.0	< 1.0	< 1.0	1400	< 1.0	< 1.0	< 1.0	88	< 1.0	< 1.0
TW-26	5/26/2006	< 5	-	-	-	< 5	-	< 1	-	< 5	-	< 1
TW-27	5/26/2006	< 5	-	-	-	6.9	-	< 1	-	< 1	-	< 1
	8/15/2007	< 5	-	-	-	2.9	-	< 1	-	< 1	-	< 1
	5/21/2008	< 5	-	-	-	3.6	-	< 1	-	< 1	-	< 1
	9/1/2009	< 5	-	-	-	35.1	-	< 1	-	2	-	< 1
	8/31/2010	< 5	-	-	-	2.6	-	< 1	-	< 1	-	< 1
	12/12/2013	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TW-28	5/26/2006	< 5	-	-	-	9.7	-	< 1	-	3.6	-	1.2
TW-29	4/25/2007	< 250	-	-	-	4000	-	< 250	-	2800	-	410
	5/21/2008	< 250	-	-	-	990	-	< 50	-	1490	-	269
	9/28/2009	31.3	-	-	-	52300	-	25.8	-	9190	-	461
	8/31/2010	< 2500	-	-	-	40200	-	< 500	-	8160	-	616
	12/12/2013	< 50	< 10	< 10	< 10	38	< 10	< 10	< 10	38	< 10	< 10
	12/12/2013	< 5.0	< 1.0	< 1.0	< 1.0	62	< 1.0	< 1.0	< 1.0	27	< 1.0	5.4
	10/30/2014	13	< 1.0	< 1.0	< 1.0	8200	1.1	49	< 1.0	2300	< 1.0	870
TW-30	4/25/2007	< 5	-	-	-	6.4	-	< 1	-	5	-	< 1
	8/16/2007	< 5	-	-	-	1.4	-	< 1	-	1.7	-	< 1
TW-31	4/25/2007	< 5	-	-	-	6.5	-	< 1	-	7.4	-	25
	12/12/2013	< 5.0	< 1.0	< 1.0	< 1.0	80	< 1.0	< 1.0	< 1.0	62	< 1.0	47
TW-32	4/25/2007	< 1	-	-	-	2300	-	< 20	-	51	-	< 20
	12/13/2013	< 10	< 2.0	< 2.0	< 2.0	66	< 2.0	4.7	< 2.0	24	< 2.0	< 2.0

Notes:

"-" - Not analyzed

< - Analyte was not detected at the laboratory reporting limit indicated

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ug/l - micrograms per liter

Table 5 - Summary of Groundwater Analytical Data - Metals
Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

Sample Location	Analyte	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium (total)	Copper	Dissolved solids (total)	Iron	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
	Unit	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
GW-01	8/30/2001	< 6	< 20	27.5	< 4	9.6	-	10.1	1720	-	-	26.9	< 0.5	104	-	< 10	< 20	5380
MW-01	8/1/1998	< 6	63	< 10	< 3	< 5	-	< 50	< 50	-	-	< 10	< 2	< 10	-	< 50	-	< 1000
	9/1/2002	-	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/1/2003	< 6	< 50	< 10	< 4	< 5	-	< 10	< 20	-	-	< 15	< 5	< 20	-	< 10	< 20	10
	8/13/2008	-	< 10	-	-	-	-	-	-	-	-	< 5	-	-	-	-	-	-
	9/1/2009	-	11	-	-	-	40400	-	-	-	8850	< 2	-	-	-	-	-	-
	8/30/2010	-	8.9	-	-	-	27500	-	-	-	5170	< 1	-	-	-	-	-	-
MW-02	8/1/1998	< 6	89	< 10	< 3	< 5	-	< 50	< 50	-	-	< 10	< 2	< 10	-	< 50	-	< 1000
	9/1/2002	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/1/2003	< 6	< 50	< 10	< 4	< 5	-	< 10	50	-	-	< 15	< 5	< 20	-	< 10	< 20	590
MW-03	8/1/1998	< 6	78	< 500	< 3	< 5	-	< 50	< 50	-	-	< 10	< 2	< 18	-	< 50	-	< 1000
	8/1/2008	-	320	-	-	-	190000	-	-	-	< 300	2.1 B	-	-	-	-	-	-
	9/1/2009	-	175	-	-	-	133000	-	-	-	< 23	< 2	-	-	-	-	-	-
	9/1/2009	-	214	-	-	-	158000	-	-	-	167 B	< 2	-	-	-	-	-	-
	8/30/2010	-	262	-	-	-	29800	-	-	-	195	2	-	-	-	-	-	-
MW-06R	8/12/2008	-	38.3	-	-	-	9710	-	-	-	< 300	< 5	-	-	-	-	-	-
	9/1/2009	-	6.8 B	-	-	-	34900	-	-	-	27.6 B	< 2	-	-	-	-	-	-
	8/31/2010	-	5.9	-	-	-	23800	-	-	-	139	< 1	-	-	-	-	-	-
MW-07	10/1/2001	-	69	< 10	< 4	-	-	-	29	-	-	< 5	-	-	-	-	-	170
	11/1/2001	-	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/1/2002	-	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/1/2003	< 6	< 50	30	< 4	< 5	-	< 10	50	-	-	< 15	< 5	< 20	-	< 10	< 20	< 10
MW-08	10/1/2001	-	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/1/2001	-	< 10	-	-	-	-	-	< 20	-	-	-	-	-	-	-	-	260
	5/20/2008	-	< 10	-	-	-	358000	-	-	-	6490	B	-	-	-	-	-	-
MW-09	10/1/2001	-	-	-	-	< 5	-	-	< 20	-	-	< 5	-	-	-	-	-	61
	11/1/2001	-	< 10	-	-	-	-	-	-	-	-	< 20	-	-	-	-	-	260
	11/1/2003	< 6	460	110	< 4	< 5	-	< 10	< 20	-	-	< 15	< 5	< 20	-	< 10	< 200	-
	2/1/2005	-	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-09D	11/1/2001	-	< 10	44	44	-	-	-	< 20	-	-	< 5	-	< 40	-	-	-	400
	11/1/2003	< 6	< 50	20	< 4	< 5	-	< 10	50	-	-	< 15	< 5	< 20	-	< 10	< 20	390
	10/5/2006	-	< 10	-	-	-	-	-	-	-	-	< 15	-	-	-	-	-	-
	8/12/2008	-	6.4 B	-	-	-	487000	< 600	-	-	-	5	-	-	-	-	-	-
	9/2/2009	-	< 5.4	-	-	4.4 B	499000	< 2	-	-	< 23	< 2	-	-	< 3.4	-	-	-
	9/1/2010	-	< 2	-	-	4.1	481000	< 1	-	2560000	< 35	< 1	-	-	< 2	-	-	-
	12/11/2013	-	< 20	29	-	< 5.0	-	< 10	-	-	-	< 10	< 0.20	-	< 20	< 10	-	-
	10/29/2014	-	< 20	24	-	6.3	-	< 10	-	-	-	< 10	< 0.20	-	< 20	< 10	-	-
MW-10	10/1/2001	-	-	-	-	-	-	< 5	-	-	-	< 5	< 5	-	-	-	-	66
	11/1/2001	-	-	-	-	< 5	-	-	510	-	-	< 5	-	-	-	-	-	1900
	9/1/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	400
	10/1/2003	< 6	< 50	50	< 4	< 5	-	< 10	130	-	-	< 15	< 5	< 20	-	< 10	< 20	480
MW-11	11/1/2001	-	-	-	-	-	-	< 5	-	-	-	< 5	< 5	-	-	-	-	1900
	9/1/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1700
	5/20/2008	-	< 10	37.5 B	-	2.9 B	22200	< 10	-	-	< 300	< 5	-	-	< 10	-	-	-
	9/2/2009	-	< 5.4	-	-	2.8 B	26400	5.3 B	-	-	< 23	< 2	-	-	4.2 B	-	-	-

Table 5 - Summary of Groundwater Analytical Data - Metals
Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

Sample Location	Analyte	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium (total)	Copper	Dissolved solids (total)	Iron	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
	Unit	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MW-11R	Date Sampled																	
	2/1/2005	-	-	-	-	-	-	-	-	-	-	< 15	-	-	-	-	-	-
	5/18/2007	-	< 10	41	-	< 5	20000	< 10	-	-	-	< 5	-	-	< 10	< 10	-	-
	7/16/2007	-	< 10	36	-	< 5	18000	< 10	-	-	-	7.8	-	-	< 10	< 10	-	-
	9/1/2010	-	< 2	-	-	< 2.5	21800	4.9	-	1050000	< 35	< 1	-	-	< 2	-	-	-
	12/11/2013	-	< 20	29	-	5	-	< 10	-	-	-	< 10	< 0.20	-	< 20	< 10	-	-
10/29/2014	-	< 20	29	-	< 5.0	-	< 10	-	-	-	< 10	< 0.20	-	< 20	< 10	-	-	
MW-12	9/1/2002	-	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/1/2003	< 6	190	< 10	< 4	< 5	-	< 10	110	-	-	< 15	< 5	< 20	-	< 10	< 20	230
	2/1/2005	-	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 180
	2/1/2005	-	190	-	-	-	-	-	-	-	-	< 150	-	-	-	-	-	-
	11/1/2007	-	66	55	-	< 5	260000	< 10	-	-	1600	< 5	-	-	< 10	-	-	-
	11/4/2007	-	40	120	-	< 10	390000	63	-	-	1300	11	-	-	< 40	-	-	-
	11/12/2007	-	75	34	-	< 5	130000	30	-	-	< 50	< 5	-	-	< 10	-	-	-
	5/20/2008	-	39.3	-	-	-	177000	-	-	-	< 300	2.5 B	-	-	-	-	-	-
	8/31/2010	-	88.1	-	-	-	26800	-	-	-	< 35	< 1	-	-	-	-	-	-
	12/12/2013	-	110	< 10	-	< 5.0	-	< 10	-	-	-	< 10	< 0.20	-	< 20	< 10	-	-
MW-12R	12/12/2013	-	110	17	-	< 5.0	-	< 10	-	-	-	< 10	0.98	-	< 20	< 10	-	-
	10/29/2014	-	110	< 10	-	< 5.0	-	< 10	-	-	-	< 10	< 0.20	-	< 20	< 10	-	-
	10/29/2014	-	100	< 10	-	< 5.0	-	< 10	-	-	-	< 10	< 0.20	-	< 20	< 10	-	-
	8/31/2010	-	88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-12D	12/12/2013	-	< 20	45	-	< 5.0	-	< 10	-	-	< 10	< 0.20	-	< 20	< 10	-	-	
MW-13	9/1/2002	-	170	-	-	-	-	-	-	-	-	< 5	-	-	-	-	-	-
	11/1/2003	< 6	< 50	< 10	< 4	< 5	-	< 10	50	-	-	< 150	< 5	< 20	-	< 10	< 20	< 10
MW-14	9/1/2002	-	< 10	-	-	-	-	-	-	-	-	< 5	-	-	-	-	-	
MW-16	5/20/2008	-	-	-	-	-	25000	-	-	-	22400	-	-	-	-	-	-	-
	9/2/2009	-	6.7 B	-	-	< 1	24000	< 2	-	-	22300	< 2	-	-	4.1 B	-	-	-
	9/1/2010	-	-	-	-	-	26900	-	-	-	23100	-	-	-	-	-	-	-
MW-17	2/1/2005	-	< 50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-18	5/1/2005	-	< 50	-	-	-	-	-	6700	-	-	< 15	-	-	-	-	-	12000
	6/1/2005	-	< 50	-	-	-	-	-	-	-	-	< 15	-	-	-	-	-	-
	7/1/2005	-	< 50	-	-	-	-	-	-	-	-	< 15	-	-	-	-	-	-
	8/1/2005	-	< 50	-	-	-	-	-	-	-	-	< 15	-	-	-	-	-	-
	10/5/2006	-	10	-	-	-	-	-	-	-	-	< 15	-	-	-	-	-	-
	5/20/2008	-	5.4 B	22.5 B	-	3 B	456000	< 10	-	-	< 300000	4.7 B	-	-	< 10	-	-	-
	9/2/2009	-	7.2 B	-	-	52.2	-	42.5	-	-	-	< 2	-	-	< 3.4	-	-	-
	9/1/2010	-	3.2	-	-	51.3	205000	41.7	-	4320000	20700	< 10	-	-	< 2	-	-	-
MW-19	5/1/2005	-	< 50	-	-	-	-	-	-	-	-	< 15	-	-	-	-	-	-
	6/1/2005	-	< 50	-	-	-	-	-	-	-	-	< 15	-	-	-	-	-	-
	7/1/2005	-	< 50	-	-	-	-	-	-	-	-	< 15	-	-	-	-	-	-
	8/1/2005	-	< 50	-	-	-	-	-	-	-	-	< 15	-	-	-	-	-	-
	10/6/2006	-	< 10	-	-	-	-	-	-	-	-	< 15	-	-	-	-	-	-
	5/20/2008	-	< 10	10.5 B	-	9.5	103000	54.4	-	-	972000	< 5	-	-	7.1 B	-	-	-
	9/2/2009	-	< 5.4	-	-	29.9	288000	189	-	-	133000	< 2	-	-	9 B	-	-	-
9/1/2010	-	< 10	-	-	29.2	323000	198	-	7820000	134000	< 1	-	-	< 10	-	-	-	
MW-20	5/20/2008	-	< 10	-	-	-	-	-	-	-	-	< 2.1	-	-	-	-	-	-
	9/1/2009	-	< 5.4	-	-	-	-	-	-	-	-	< 2	-	-	-	-	-	-
	8/31/2010	-	< 2	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-
MW-21	5/21/2008	-	579	-	-	-	-	-	-	-	-	< 50	-	-	-	-	-	-
	9/3/2009	-	562	-	-	-	-	-	-	-	-	< 2	-	-	-	-	-	-
	9/1/2010	-	379	-	-	-	-	-	-	-	-	7.7	-	-	-	-	-	-

Table 5 - Summary of Groundwater Analytical Data - Metals
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Colonial Terminals
Savannah, Georgia

Sample Location	Analyte	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium (total)	Copper	Dissolved solids (total)	Iron	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
	Unit	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MW-22	5/21/2008	-	325	-	-	-	-	-	-	-	-	116	-	-	-	-	-	-
	9/3/2009	-	531	-	-	-	-	-	-	-	-	< 2	-	-	-	-	-	-
	9/1/2010	-	247	-	-	-	-	-	-	-	-	24.9	-	-	-	-	-	-
MW-23	5/21/2008	-	61.3	-	-	-	-	-	-	-	-	53.2	-	-	-	-	-	-
	9/3/2009	-	106	-	-	-	-	-	-	-	-	< 2	-	-	-	-	-	-
MW-24	5/21/2008	-	4.2 B	9.6 B	-	22.7	-	3.2 B	-	-	-	2.3 B	-	-	< 10	-	-	-
	9/3/2009	-	< 5.4	-	-	-	-	-	-	-	-	< 2	-	-	-	-	-	-
	9/1/2010	-	< 2	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-	-
MW-25	5/21/2008	-	7.3 B	138 B	-	7.6	134000	1.2 B	-	-	493	5.8	-	-	< 10	-	-	-
	9/3/2009	-	< 5.4	-	-	-	76200	-	-	-	125 B	< 2	-	-	-	-	-	-
	9/2/2010	-	220000	-	-	-	282000	-	-	-	92.2	937	-	-	-	-	-	-
	9/2/2010	-	260	-	-	-	307000	-	-	-	2000	1360	-	-	-	-	-	-
	12/11/2013	-	58	47	-	< 5.0	-	< 10	-	-	-	380	< 0.20	-	< 20	< 10	-	-
	10/30/2014	-	64	92	-	< 5.0	-	< 10	-	-	-	370	< 0.20	-	< 20	< 10	-	-
MW-26	5/20/2008	-	< 10	16.2 B	-	4.3 B	478000	-	-	-	-	3.3 B	-	-	< 10	-	-	-
	9/2/2009	-	< 5.4	-	-	-	20300	-	-	-	152 B	< 2	-	-	-	-	-	-
	9/2/2010	-	< 2	-	-	-	70400	-	-	-	100	< 1	-	-	-	-	-	-
MW-27	5/20/2008	-	2500	-	-	-	-	-	-	-	-	8.5	-	-	-	-	-	-
	9/3/2009	-	5950	-	-	-	-	-	-	-	-	18.4	-	-	-	-	-	-
	9/1/2010	-	4810	-	-	-	-	-	-	-	-	15.1	-	-	-	-	-	-
MW-28	5/21/2008	-	52.1	-	-	-	-	-	-	-	-	3.1 B	-	-	-	-	-	-
	9/3/2009	-	106	-	-	-	-	-	-	-	-	< 2	-	-	-	-	-	-
	9/1/2010	-	197	-	-	-	-	-	-	-	-	23.3	-	-	-	-	-	-
MW-29	8/12/2008	-	< 10	-	-	< 5	227000	< 10	-	-	< 300	< 5	-	-	< 10	-	-	-
	9/2/2009	-	< 5.4	-	-	< 1	-	2.9 B	-	-	-	< 2	-	-	< 2	-	-	-
	9/1/2010	-	2.5	-	-	< 1	-	1.4	-	588000	-	< 1	-	-	< 2	-	-	-
MW-30	8/12/2008	-	-	-	-	-	454000	-	-	-	407	-	-	-	-	-	-	-
	9/3/2009	-	-	-	-	-	50800	-	-	-	180 B	-	-	-	-	-	-	-
	8/31/2010	-	-	-	-	-	32500	-	-	-	< 35	-	-	-	-	-	-	-
	12/12/2013	-	< 20	43	-	< 5.0	-	< 10	-	-	-	< 10	< 0.20	-	< 20	< 10	-	-
	10/29/2014	-	< 20	67	-	< 5.0	-	< 10	-	-	-	< 10	< 0.20	-	< 20	< 10	-	-
MW-32	8/13/2008	-	-	-	-	-	321000	-	-	-	231000	-	-	-	-	-	-	-
	9/3/2009	-	-	-	-	-	76300	-	-	-	37900	-	-	-	-	-	-	-
	9/1/2010	-	-	-	-	-	77600	-	-	-	41500	-	-	-	-	-	-	-
MW-34	8/11/2008	-	97	-	-	-	1210	-	-	-	589	< 5	-	-	-	-	-	-
	8/31/2010	-	89.9	-	-	-	-	-	-	-	-	2.1	-	-	-	-	-	-
PT-W1	11/12/2007	-	91	21	-	< 5	33000	< 10	-	-	1400	< 5	-	-	< 10	-	-	-
PT-W2	11/12/2007	-	360	< 10	-	< 5	5000	< 10	-	-	1200	< 5	-	-	< 10	-	-	-
TW-01	5/18/2007	-	< 10	39	-	< 5	33000	< 10	-	-	-	< 5	-	-	< 10	< 10	-	-
	7/16/2007	-	< 10	36	-	5	31000	< 10	-	-	-	< 5	-	-	< 10	< 10	-	-
TW-03	5/18/2007	-	< 10	2.5	-	7	26000	< 10	-	-	-	4900	-	-	< 10	< 10	-	-
	7/16/2007	-	< 10	23	-	< 5	9200	< 10	-	-	-	< 5	-	-	< 10	< 10	-	-
TW-04	5/18/2007	-	< 10	31	-	< 5	17000	< 10	-	-	-	< 5	-	-	< 10	< 10	-	-
	7/16/2007	-	< 10	32	-	< 5	17000	< 10	-	-	-	< 5	-	-	< 10	< 10	-	-
TW-09	8/11/2008	-	50.8	-	-	10.5	-	< 10	-	-	-	3.5 B	-	-	6.8 B	-	-	-
	9/1/2009	-	52.8	-	-	22.7	-	< 2	-	-	-	5.4	-	-	10.3 B	-	-	-
	8/30/2010	-	48.8	-	-	13.6	-	4.9	-	3260000	-	5.7	-	-	4.2	-	-	-

Table 5 - Summary of Groundwater Analytical Data - Metals
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Analyte		Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium (total)	Copper	Dissolved solids (total)	Iron	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
Unit		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Sample Location	Date Sampled																	
TW-25	5/20/2008	-	-	-	-	-	62600	-	-	-	< 300000	-	-	-	-	-	-	-
	9/1/2009	-	< 5.4	-	-	< 1	-	4.5 B	-	-	-	< 2	-	-	4.5 B	< 10	-	-
	8/31/2010	-	-	-	-	-	59400	-	-	-	205	-	-	-	-	-	-	-
	12/12/2013	-	< 20	42	-	< 5.0	-	< 10	-	-	-	< 10	< 0.20	-	< 20	< 10	-	-
	10/30/2014	-	< 20	39	-	< 5.0	-	< 10	-	-	-	< 10	< 0.20	-	< 20	< 10	-	-
TW-27	5/20/2008	-	-	-	-	-	5600	-	-	-	21.8 B	-	-	-	-	-	-	-
TW-29	5/20/2008	-	-	-	-	-	387000	-	-	-	23000	-	-	-	-	-	-	-
	9/1/2009	-	< 5.4	-	-	-	43500	-	-	-	2800	< 2	-	-	-	-	-	-
	8/31/2010	-	-	-	-	-	39100	-	-	-	23100	-	-	-	-	-	-	-
	8/31/2010	-	-	-	-	-	39700	-	-	-	84000	-	-	-	-	-	-	-
	12/12/2013	-	< 20	27	-	< 5.0	-	< 10	-	-	-	< 10	< 0.20	-	< 20	< 10	-	-
	10/30/2014	-	< 20	34	-	< 5.0	-	< 10	-	-	-	< 10	< 0.20	-	< 20	< 10	-	-

Notes:

"-" - Not analyzed

< - Analyte was not detected at the laboratory reporting limit indicated

B - Indicates the result was greater than or equal to the method detection limit but less than the reporting limit

ug/l - micrograms per liter

Table 6 - Summary of Surface Water Analytical Data - VOCs
Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

Analyte Units		PCE ug/l	TCE ug/l	c12DCE ug/l	t12DCE ug/l	Vinyl Chloride ug/l
Location	Date Sampled					
SW-01	9/17/2010	< 1	< 1	< 1	< 1	< 1
	12/13/2013	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW-01R	4/19/2014	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/28/2014	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4/22/2015	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/6/2015	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	5/4/2016	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
	5/4/2016	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
SW-02	9/17/2010	< 1	< 1	< 1	< 1	< 1
	12/13/2013	1.4	< 1.0	< 1.0	< 1.0	< 1.0
SW-02R	4/19/2014	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/28/2014	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4/22/2015	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/6/2015	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	5/4/2016	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
SW-03	9/17/2010	< 1	< 1	< 1	< 1	< 1
	12/13/2013	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW-03R	4/19/2014	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/28/2014	1.1	< 1.0	< 1.0	< 1.0	< 1.0
	4/22/2015	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/6/2015	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	5/4/2016	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010

Notes:

< - Analyte was not detected at the laboratory reporting limit indicated
ug/l - micrograms per liter

Table 7 - Comparison of Non-Residential Soil Risk Reduction Standards to Maximum Detected Concentrations
Final Compliance Status Report
Colonial Terminals
Savannah, Georgia

Detected Regulated Substance	Maximum Concentration Surface Soil (0-2' bgs) (mg/kg)	Surface Soil (0-2' bgs) RRS (mg/kg)	Receptor ¹	Maximum Concentration Subsurface Soil (> 2' bgs) (mg/kg)	Subsurface Soil (> 2' bgs) RRS (mg/kg)	Receptor ¹
1,1-Dichloroethene	0	250	Commercial/Industrial Worker	3.8	680	Construction Worker
cis-1,2-Dichloroethene	0	1,200	Construction Worker	0.66	1,700	Construction Worker
trans-1,2-Dichloroethene	0	240	Commercial/Industrial Worker	0	640	Construction Worker
Methylene Chloride	0.047	1,600	Commercial/Industrial Worker	32	2,600	Construction Worker
Tetrachloroethene	0	150	Commercial/Industrial Worker	400	400	Construction Worker
Trichloroethene	0.02	7.1	Commercial/Industrial Worker	19	19	Construction Worker
Vinyl Chloride	0	5.1	Commercial/Industrial Worker	0.0086	220	Construction Worker
2,4-Dinitrotoluene	0	180	Commercial/Industrial Worker	460	1,700	Construction Worker
Antimony	29	250	Construction Worker	51	340	Construction Worker
Arsenic	230	38	Commercial/Industrial Worker	850	260	Construction Worker
Barium	120	120,000	Construction Worker	176	170,000	Construction Worker
Beryllium	0.7	1,200	Construction Worker	0	1,700	Construction Worker
Cadmium	2.5	620	Construction Worker	4.95	860	Construction Worker
Chromium (total)	69	1,200	Commercial/Industrial Worker	41.8	1,200	Utility Worker
Copper	300	25,000	Construction Worker	1,910	34,000	Construction Worker
Lead	1,500	930	Commercial/Industrial Worker	17,000	3,500	Construction Worker
Mercury	2.2	62	Construction Worker	15.4	86	Construction Worker
Nickel	25	12,000	Construction Worker	17.8	17,000	Construction Worker
Silver	0	3,100	Construction Worker	6.21	4,300	Construction Worker
Thallium	0.29	10	Construction Worker	0	10	Construction Worker
Zinc	320	190,000	Construction Worker	3,400	260,000	Construction Worker

Notes:

bgs below ground surface

mg/kg Milligrams per kilogram

Blue highlighting indicates that the maximum concentration exceeds the non-residential RRS.

¹Receptor that resulted in the most conservative RRS.

**Table 8 - Surface Soil Concentrations and Area Averaging
Final Compliance Status Report
Colonial Terminals - HSI No. 10098
Savannah, Georgia**

Surface Soil Locations	Depth (feet)	Arsenic (mg/kg)	Lead (mg/kg)
1042-W	0-2	22	230
1054W	0-2	34	350
1058W-S-R	0-2	9	56
1065W	0-2	19	160
1066W	0-2	2.3	51
1072-W	0-2	6.2	57
1079W	0-2	9.3	82
1081W	0-2	23	180
1086W-R	0-2	25	120
1095W	0-2	15	140
A1-W-N (R)	0-2	4.7	31
A4-Wall South	0-2	7	560
A5-W-S	0-2	25	430
Area D SW-East	0-2	2.14	5.64
Area D SW-North	0-2	3.42	38.5
Area D SW-South	0-2	2.12	3.2
Area D SW-West	0-2	9.43	4.71
B2-SUP-WS1	0-2	11	220
B2-SUP-WS2	0-2	7.9	55
B2-SUP-WS3	0-2	18	170
B2-SUP-WS4	0-2	23	330
B2-SUP-WS5-R	0-2	17	130
B2-SUP-WW	0-2	31	310
B3-SUP-WS	0-2	5.9	200
B3-SUP-WW	0-2	8.4	100
D2R-W-E	0-2	18	160
D-2-SW-E	0-2	230	110
D-2-SW-S	0-2	13	140
D-3-SW-N	0-2	22	180
D-3-SW-S	0-2	16	170
D-3-SW-W	0-2	6	92
D-Berm-2	0-2	25	330
D-Berm-W-S	0-2	31	300
D-HA-2	0-2	17.4	107
D-HA-3	0-2	6.7	52.1
F SUP NW	0-2	24	410
F SUP SW	0-2	13	150
F5-W-S	0-2	6.5	74
F6-W-W	0-2	30	240
G4-W-S	0-2	24	370
G-NW-SW	0-2	38	640
G-W-N	0-2	29	540
I16	0-2	37	330
I1-SW	0-2	15	150

**Table 8 - Surface Soil Concentrations and Area Averaging
Final Compliance Status Report
Colonial Terminals - HSI No. 10098
Savannah, Georgia**

Surface Soil Locations	Depth (feet)	Arsenic (mg/kg)	Lead (mg/kg)
I3-W-W	0-2	23	220
I4-W-S	0-2	4.8	57
I5-W-N (R)	0-2	20	120
I6-W-W	0-2	14	99
I7-W-S	0-2	21	150
I7-W-W	0-2	34	290
I8-W-S	0-2	20	180
I8-W-W	0-2	11	110
I9-W-N	0-2	17	180
SB-1	0.5-1.5	9	72
SB-2	0.5-1.5	28	160
SB-4	1-2	11	16
SB-5	0.5-1.5	2	5
SB-6	1-1.5	4	60
SB-7	0.5-1.5	2.3	23
SB-8	0.5-1.5	89	230
SB-9	0.5-1.5	13	430
SB-20	0-2	8	160
SB-22	0-1.5	34	390
SB-23	0-2	5.9	36
SB-26	0-2	15	770
SB-29	0-2	21	No Data
SB-31	0-2	11	190
SB-32	0-2	3.9	410
SB-34	0-2	6.9	68
SB-48	0-2	21	230
SB-50	0-2	66	630
SB-52	0-2	54	840
SB-53	0-2	1	5.5
SB-54	0-2	4.2	12
SB-55	0-2	50	1500
SB-56	0-2	19	270
SB-57	0-2	1.4	9
SB-58	0-2	1	3.3
SL-BF-1	1-1	7.7	50
SL-BF-2	1-1	22	200
SL-BF-3	1-1	2.5	25
A-SB-1	0-2	88	390
A-SB-5	0-2	37	550
B-SB-1	0-2	5.9	74
B-SB-10	0-2	13	140
B-SB-12	0-2	17	89
B-SB-13	0-2	29	200
B-SB-18	0-2	64	720

**Table 8 - Surface Soil Concentrations and Area Averaging
Final Compliance Status Report
Colonial Terminals - HSI No. 10098
Savannah, Georgia**

Surface Soil Locations	Depth (feet)	Arsenic (mg/kg)	Lead (mg/kg)
B-SB-2	0-2	19	260
B-SB-20	0-2	51	240
B-SB-27	0-2	48	530
B-SB-3	0-2	23	640
B-SB-3 DUP	0-2	4.5	14
B-SB-42	0-2	14	150
B-SB-44	0-2	3.7	21
B-SB-52	0-2	15	700
B-SB-53	0-2	11	160
B-SB-8	0-2	9.3	120
B-SB-9	0-2	37	440
C-SB-1	0-2	32	180
C-SB-4	0-2	7.5	35
C-SB-5	0-2	3.9	12
C-SB-6	0-2	9.5	75
D-SB-2	0-2	62	720
D-SB-8	0-2	76	630
E-SB-1	0-2	7.3	100
E-SB-4	0-2	27	460
F-SB-1	0-2	26	380
F-SB-7	0-2	25	230
F-SB-8	0-2	20	160
F-SB-9	0-2	28	440
F-SB-10	0-2	26	270
F-SB-20	0-2	15	230
G-SB-5	0-2	3.4	10
H-SB-1	0-2	3.2	No Data
H-SB-5	0-2	3.5	No Data
H-SB-6	0-2	15	160
H-SB-7	0-2	20	250
I-SB-10	0-2	14	170
I-SB-3	0-2	16	120
I-SB-9	0-2	18	140
MW-2	0-2	3.4	17
95 Percent UCL		24.25	266.1

**Table 9 - Comparison of Arsenic and Lead Subsurface Soil Data to Non-Residential RRS
Final Compliance Status Report
Colonial Terminals - HSI No. 10098
Savannah, Georgia**

Subsurface Soil Locations	Depth (feet)	Arsenic (mg/kg)	Lead (mg/kg)
		RRS = 260 mg/kg	RRS = 3,500 mg/kg
1020SW	0-5	96	520
1021SW	0-5	100	1,500
1022W-R	2-5	50	630
A1-Floor	6-6	100	82
A2-Floor	8-8	85	41
A3-Floor	5-5	120	550
A4-Floor	2-2	69	1,000
A5-Floor	5-5	280	670
Area D Bottom-Center	2-5	75.2	69
Area D Bottom-NE	2-5	31.4	72.9
Area D Bottom-NW	2-5	65.6	60
Area D Bottom-SE	2-5	32	70.4
Area D Bottom-SW	2-5	67.9	55.6
C-Floor	5.5-5.5	55	250
C-W-E	2-5	7.1	98
C-W-N	2-5	42	420
C-W-S	2-5	120	1,300
C-W-W (R)	2-5	20	13
D-1-Floor	2.5-2.5	94	670
D-1-Floor-2	2.5-2.5	100	810
D-1-Floor-3	2-2	8.1	14
D-2-Floor	2-2	92	95
D-3-Floor	2-2	56	280
E-Floor	5.5-5.5	18	260
E-W-E	2-5	4.3	10
E-W-N	2-5	65	1,400
E-W-S	2-5	18	280
E-W-W	2-5	14	210
F1-Floor	2-2	31	670
F2-Floor	2-2	38	560
F3-Floor 1	5-5	62	21
F3-Floor 2	6-6	7.3	17
F3-W-E	2-5	73	1,000
F4-Floor	8-8	5.6	11
F4-W-E	5-8	21	30
F5-Floor	8-8	9.7	14
F5-Floor 3	5-5	3.9	14
F5-Floor-2	5-5	6.2	82
F5-W-S	2-5	74	1,000
F5-W-S	5-8	8.3	90
F6 Floor 1	3-3	46	990
F6 Floor 2	2-2	33	370
F-Floor	5-5	31	690

**Table 9 - Comparison of Arsenic and Lead Subsurface Soil Data to Non-Residential RRS
Final Compliance Status Report
Colonial Terminals - HSI No. 10098
Savannah, Georgia**

Subsurface Soil Locations	Depth (feet)	Arsenic (mg/kg)	Lead (mg/kg)
		RRS = 260 mg/kg	RRS = 3,500 mg/kg
G2NE	0-3	96	2,100
G4 - Floor	2-2	27	64
G5-Floor	5-5	56	110
G5-W-E (R)	2-5	18	77
G5-W-N	2-5	43	25
G5-W-S	2-5	34	76
G-Floor	3-3	96	1,000
G-N2-Floor	3-3	43	1,300
G-N-Floor	3-3	100	1,400
I1-Floor	2-2	5.7	45
I2-Floor	2-2	25	220
I3-Floor	2-2	24	210
I4-Floor	5-5	200	700
I4-W-N	2-5	33	350
I4-W-W	2-5	22	43
I5-Floor	3-3	20	77
I6-Floor	2-2	14	180
I7-Floor	2-2	32	210
I8-Floor	2-2	37	350
I9-Floor	2-2	20	210
MW-18	2-5	52	250
MW-18	5-8	31	8.4
MW-19	2-4	41	320
MW-19	6-9	5	27
SB-1	4.5-6.5	2.4	7.8
SB-2	3.5-5.5	3.1	12
SB-3	3.5-5.5	21	92
SB-4	4-6	8.6	11
SB-4	6-8	3.5	6.9
SB-5	3.5-5.5	10	31
SB-6	3.5-5.5	6.4	67
SB-7	3.5-5.5	22	68
SB-8	3.5-5.5	15	19
SB-9	3.5-5.5	33	410
SB-20	3-5	66	3,400
SB-20	6-8	2.2	11
SB-21	3-5	5.7	50
SB-27	3-5	5.7	2,000
SB-27	6-8	4.8	150
SB-28	3-5	850	No Data
SB-28	6-8	300	No Data
SB-29	3-5	23	No Data
SB-32	3-5	3.9	9.2

**Table 9 - Comparison of Arsenic and Lead Subsurface Soil Data to Non-Residential RRS
Final Compliance Status Report
Colonial Terminals - HSI No. 10098
Savannah, Georgia**

Subsurface Soil Locations	Depth (feet)	Arsenic (mg/kg)	Lead (mg/kg)
		RRS = 260 mg/kg	RRS = 3,500 mg/kg
SB-33	3-5	99	No Data
SB-37	3-5	140	8,600
SB-38	3-5	65	960
SB-38	5-6.5	220	3,700
SB-40	3-5	48	1,100
SB-41	3-5	24	1,700
SB-41	5-7	67	27
SB-42	3-5	20	15
SB-42	5.5-7	11	8.6
SB-43	3-5	5.4	No Data
SB-43	6-8	4.9	No Data
SB-44	6-8	310	No Data
SB-45	3-5	9.6	140
SB-45	6-8	0.97	2.8
SB-46	3-5	2.4	14
SB-46	6-8	7.2	8
SB-47	3-5	No Data	34
SB-47	6-8	No Data	6.1
SB-48	3-5	6.8	95
SB-49	3-5	37	18
SB-50	3-5	5.7	44
SB-52	4-6	12	28
SB-53	4-6	1.1	5.1
SB-54	4-6	3.8	13
SB-55	4-6	22	1,400
SB-56	4-6	270	3,200
SB-57	5-7	1.1	4.6
SB-58	4-6	1.7	5.6
SB-59	3-5	31	230
SB-59	6-8	1.5	7.5
SB-60	3-5	75	580
SB-60	6-8	4.8	5.9
SB-61	3-5	96	95
SB-61	5.5-7	5.9	20
SB-62	3-5	8.3	180
SB-63	3-5	1	2.9
SB-64	3-5	3.1	8.2
SB-65	3-5	4	11
SB-66	3-5	5.4	94
SB-67	3-5	6.4	53
SB-68	3-5	7.8	17
SB-68	6-8	7.5	10
SB-69	3-5	28	620

**Table 9 - Comparison of Arsenic and Lead Subsurface Soil Data to Non-Residential RRS
Final Compliance Status Report
Colonial Terminals - HSI No. 10098
Savannah, Georgia**

Subsurface Soil Locations	Depth (feet)	Arsenic (mg/kg)	Lead (mg/kg)
		RRS = 260 mg/kg	RRS = 3,500 mg/kg
SB-69	6-8	13	11
SB-70	3-5	3.3	2.8
SB-70	6-8	8.8	11
SB-71	3-5	3.7	8.2
SB-72	3-5	12	5.2
SB-72	6-8	59	18
SB-73	3-5	15	250
SB-74	3-5	21	19
SB-74	6-8	8.2	16
SL-BF-1	4-4	1.7	9.7
SL-BF-2	4-4	3.6	14
SL-BF-3	4-4	1.7	5.1
Station 12+00	6-8	619	3,390
Station 13+50	5.5-8	45.6	19
Station 15+00	10.5-10.5	10.3	68.9
Station 16+50	5.5-8	4.99	4.99
Station 18+00	6-8	34.9	1,200
Station 19+50	5.5-8	81.5	732
Station 21+00	6-8	306	3,000
A-SB-1	2-5	7.7	290
A-SB-5	2-5	36	240
A-SB-6	2-5	35	600
B-SB-3	2-5	13	17
B-SB-8	2-5	33	17
B-SB-13DUP	2-5	20	390
B-SB-18	2-5	19	200
B-SB-23DUP	2-5	95	2,100
B-SB-28	2-5	250	1,000
B-SB-38 DUP	2-5	110	1,300
B-SB-48 DUP	2-5	600	17,000
B-SB-53 DUP	2-5	690	5,600
C-SB-1	2-5	160	94
C-SB-1	5-8	230	1,800
C-SB-3	5-8	110	800
C-SB-4	2-5	130	1,800
C-SB-4	5-8	18	160
C-SB-5	2-5	5.1	69
C-SB-5	5-8	9.7	150
C-SB-6	2-5	3.6	36
C-SB-6	5-8	3.1	35
E-SB-1	2-5	54	660
E-SB-1	5-8	5.5	29
E-SB-3	5-8	3.6	11

**Table 9 - Comparison of Arsenic and Lead Subsurface Soil Data to Non-Residential RRS
Final Compliance Status Report
Colonial Terminals - HSI No. 10098
Savannah, Georgia**

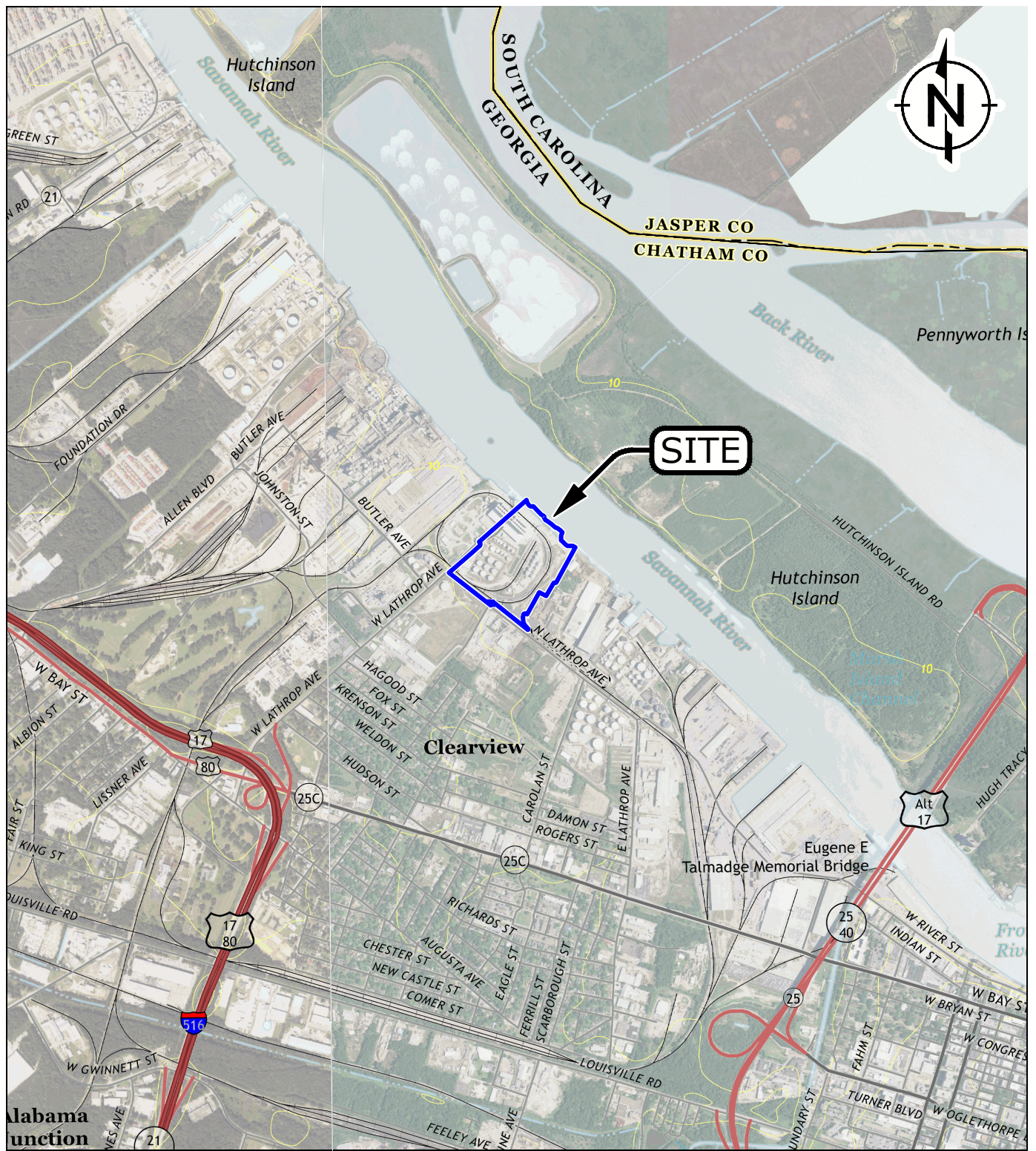
Subsurface Soil Locations	Depth (feet)	Arsenic (mg/kg)	Lead (mg/kg)
		RRS = 260 mg/kg	RRS = 3,500 mg/kg
E-SB-4	2-5	37	540
E-SB-4	5-8	3.9	24
F-SB-1	2-5	120	1,000
F-SB-7	2-5	22	650
F-SB-8	2-5	11	310
F-SB-10	2-5	81	1,500
F-SB-13	5-8	64	370
F-SB-14	2-5	46	440
F-SB-15	2-5	21	440
F-SB-16	5-8	21	100
F-SB-18	2-5	46	1,100
F-SB-20	2-5	63	840
G-SB-1	2-5	3.9	17
G-SB-3	5-8	3.8	15
G-SB-4	2-5	120	2,100
G-SB-5	2-5	12	15
G-SB-6	2-5	3.4	12
G-SB-7	2-5	62	830
G-SB-8	2-5	140	460
G-SB-9	2-5	240	340
G-SB-10	2-5	30	34
I-SB-1	2-5	63.6	12
I-SB-2	2-5	6	67
I-SB-3	2-5	29	260
I-SB-4	2-5	6.2	38
I-SB-5	2-4	25	260
I-SB-8	2-5	15	660
I-SB-9	2-5	4.9	11
I-SB-10	2-5	15	42

Notes:

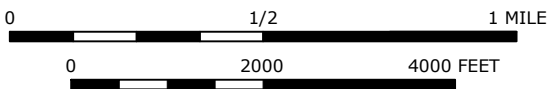
Blue highlight indicates exceedance of Non-Residential RRS

FIGURES


L:\Loop Project Files\CAD\1690009338_Colonial-Plant 2 CSR\2019-02\01_Site Location Map (Savannah GA).dwg



CONTOUR INTERVAL 10 FEET



LEGEND:

 PROPERTY BOUNDARY (APPROXIMATE)

SOURCE:
2017 USGS 7.5 Minute Series Savannah and Garden City, Georgia Topographic Quadrangles.
Site Location; N: 32.099232° W: 81.115429° WGS84



QUADRANGLE LOCATION



SITE LOCATION MAP
COLONIAL TERMINALS, INC.
373 NORTH LATHROP AVENUE
SAVANNAH, GEORGIA

FIGURE 1

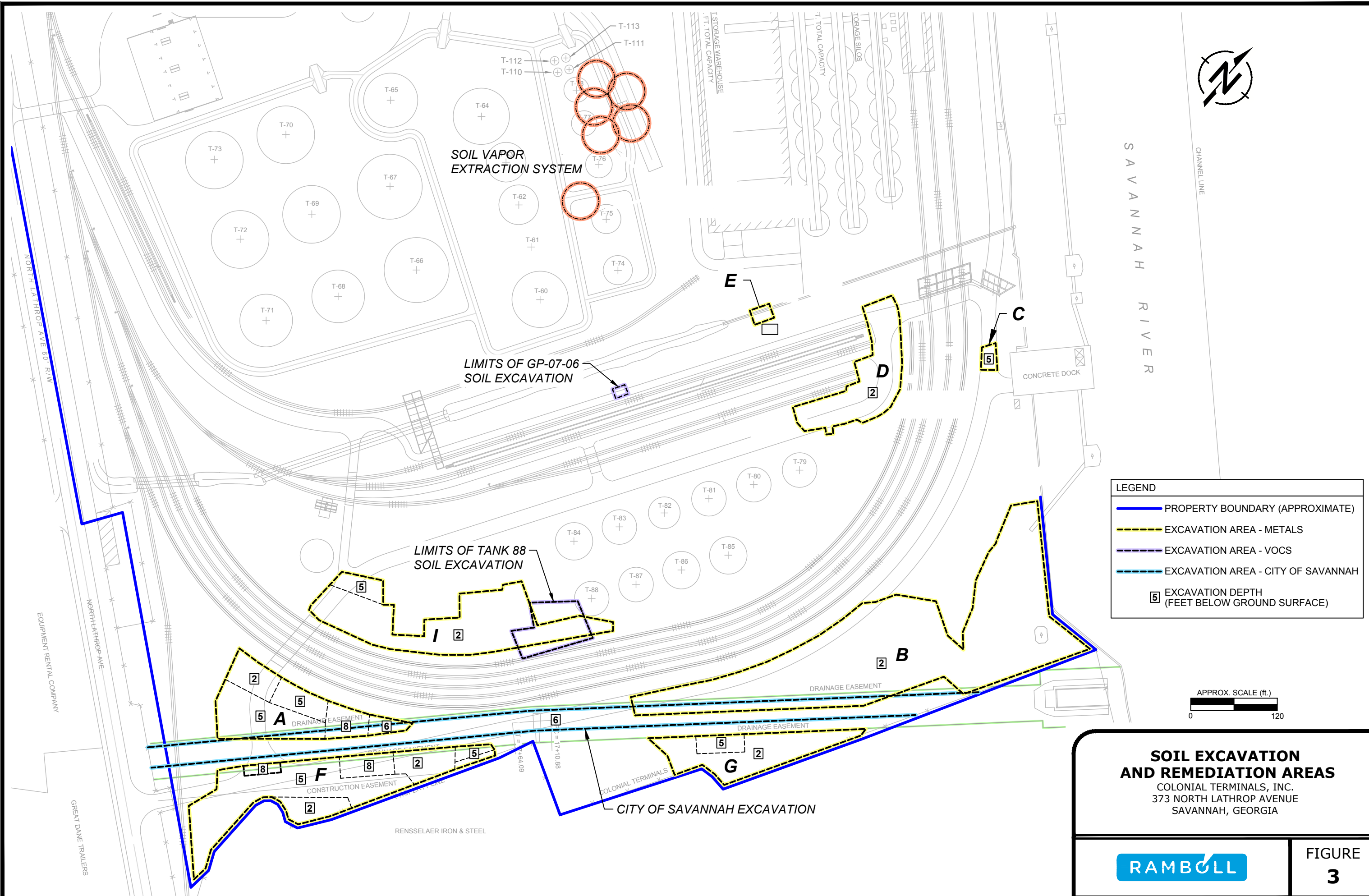
DRAFTED BY: HJW/CKL

DATE: 2/20/19

1690009338

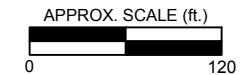


L:\Loop Project Files\CAD\1690009338_Colonial-Plant 2_CSR\2019-02\03_Soil Excavation and Remediation Areas.dwg



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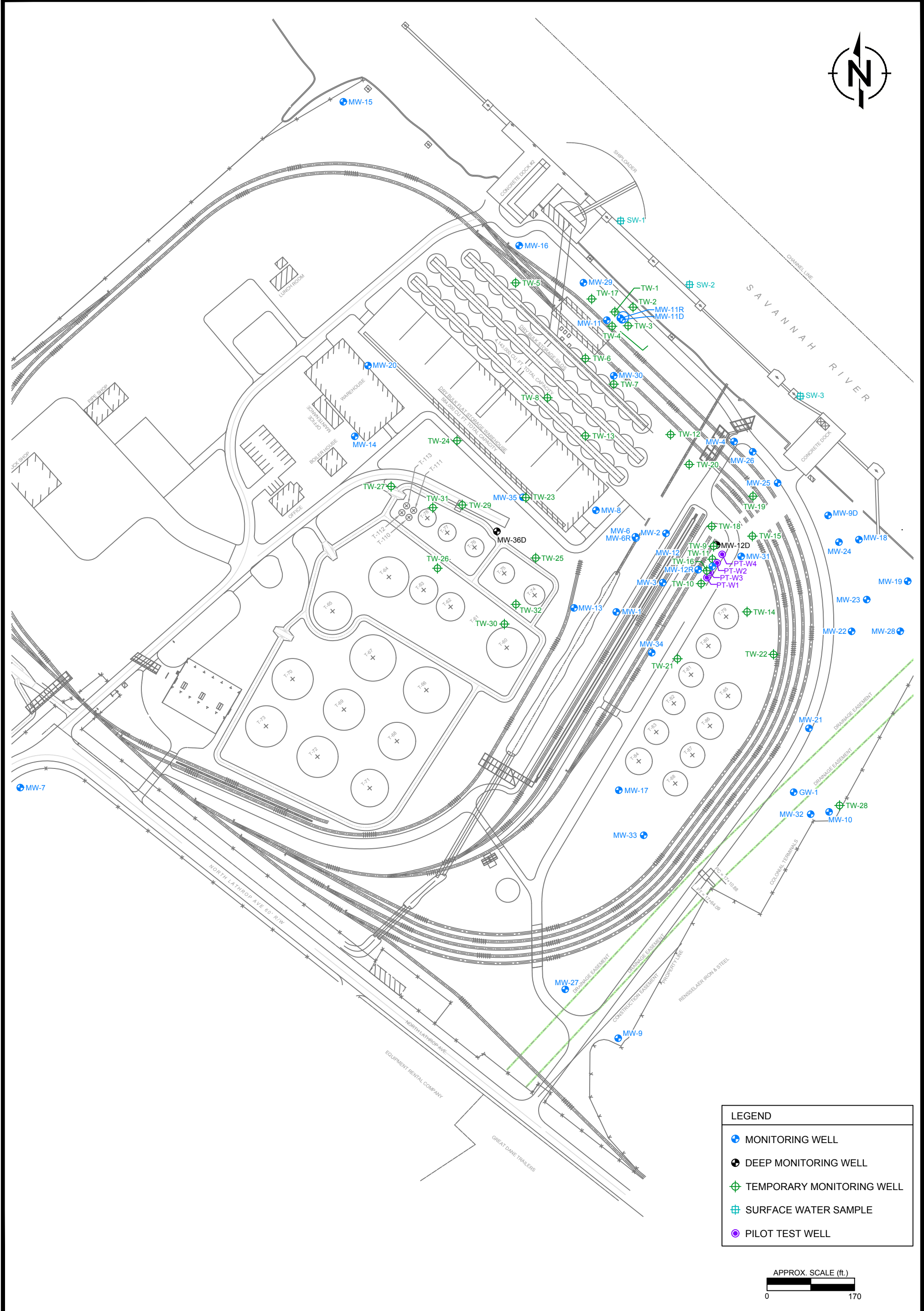
- PROPERTY BOUNDARY (APPROXIMATE)
- - - EXCAVATION AREA - METALS
- - - EXCAVATION AREA - VOCs
- - - EXCAVATION AREA - CITY OF SAVANNAH
- 5 EXCAVATION DEPTH (FEET BELOW GROUND SURFACE)



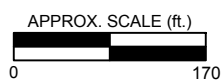
SOIL EXCAVATION AND REMEDIATION AREAS
 COLONIAL TERMINALS, INC.
 373 NORTH LATHROP AVENUE
 SAVANNAH, GEORGIA

	FIGURE 3
	<small>DRAFTED BY: APR/CKL DATE: 2/19/19 1690009338</small>

Sources: Environmental Resources Management, Drawing 1, Site Layout Map, Revised Cap for VOCs, for Colonial Terminals, Inc., December 2008 and drawing 6-1, Confirmation Sample Locations, Colonial Terminals, HSI Site #10098, February 2011.



LEGEND	
	MONITORING WELL
	DEEP MONITORING WELL
	TEMPORARY MONITORING WELL
	SURFACE WATER SAMPLE
	PILOT TEST WELL

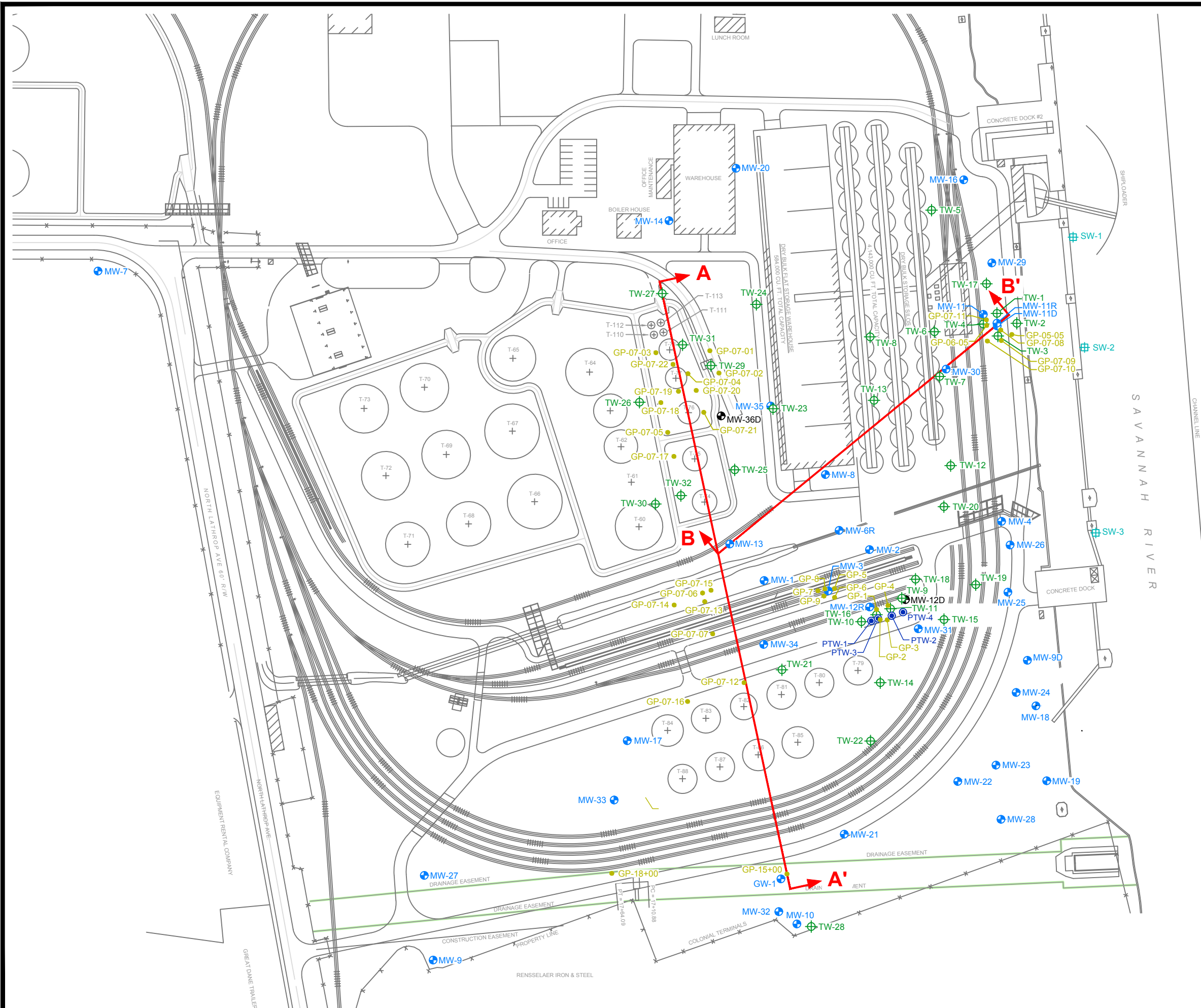


HISTORIC GROUNDWATER MONITORING WELL AND SURFACE WATER SAMPLING LOCATIONS

COLONIAL TERMINALS, INC.
373 NORTH LATHROP AVENUE
SAVANNAH, GEORGIA

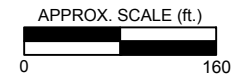
FIGURE
4

L:\Loop Project Files\CAD\1690009338_Colonial-Plant 2_CSR\2019-02\05_Cross-Section Transects.dwg



LEGEND

- MONITORING WELL
- DEEP MONITORING WELL
- ⊕ TEMPORARY MONITORING WELL
- ⊕ SURFACE WATER SAMPLE
- GEOPROBE LOCATION
- PILOT TEST WELL
- ▲ CROSS-SECTION TRANSECT



CROSS-SECTION TRANSECTS
 COLONIAL TERMINALS, INC.
 373 NORTH LATHROP AVENUE
 SAVANNAH, GEORGIA



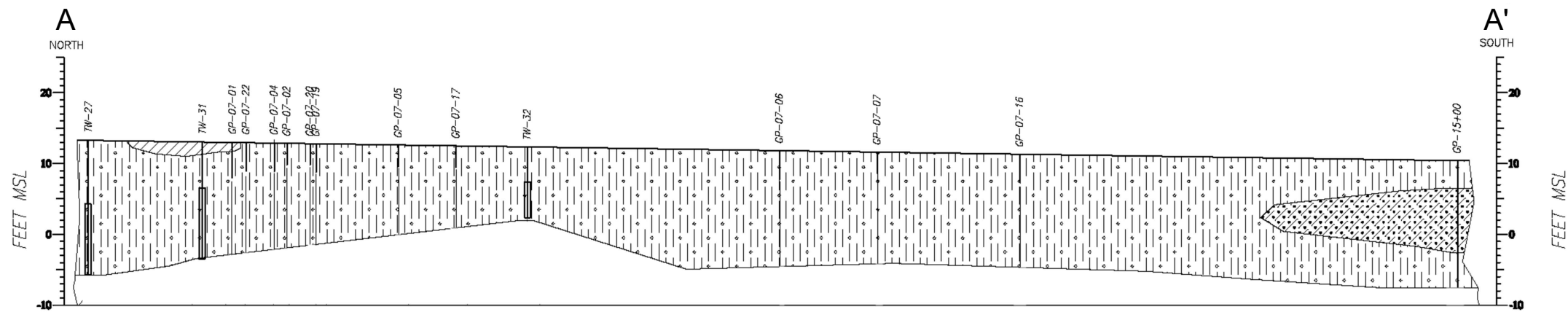
FIGURE 5

Sources: Environmental Resources Management, Drawing 1, Site Layout Map, Revised Cap for VOCs, for Colonial Terminals, Inc., December 2008.

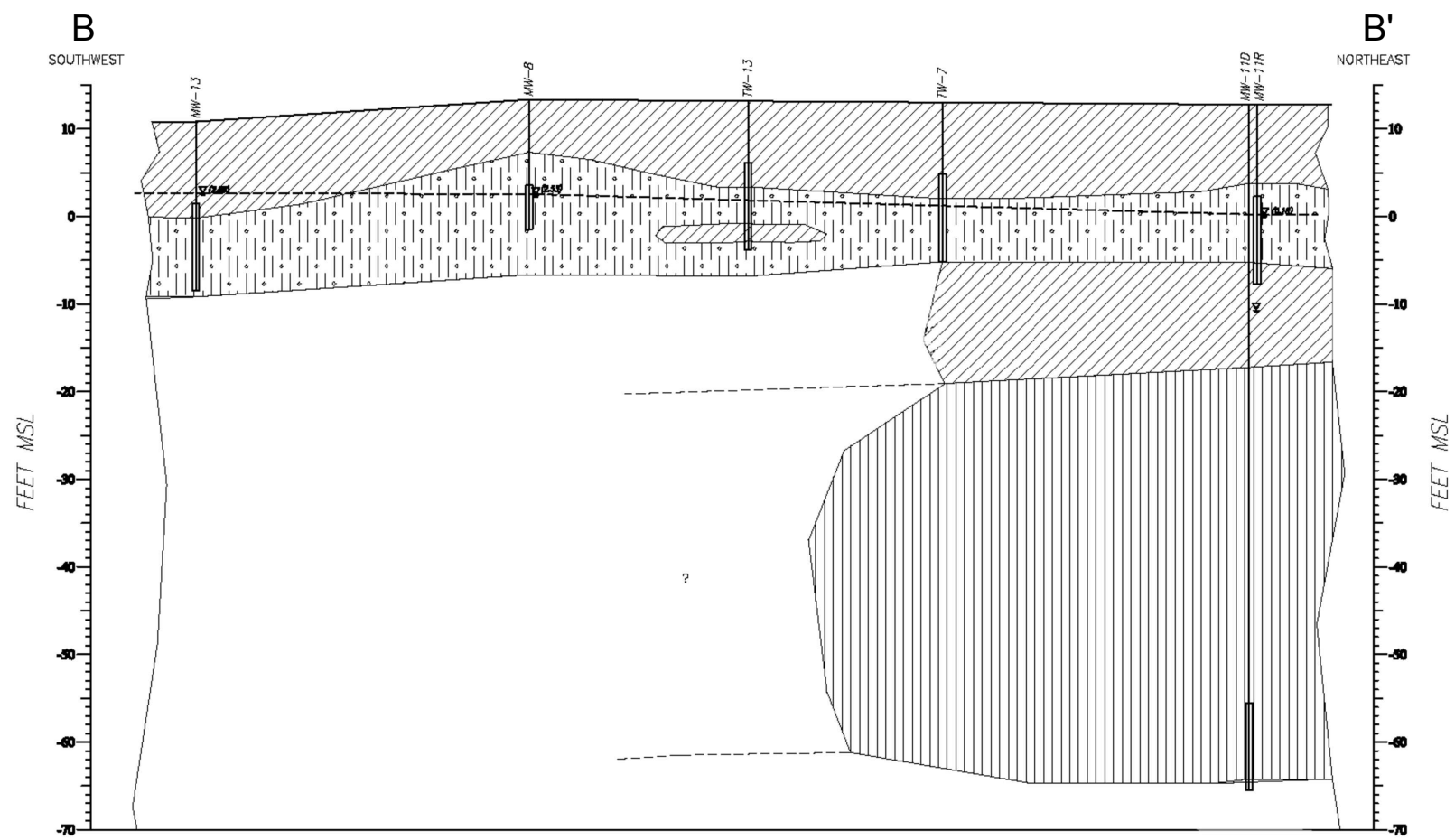
DRAFTED BY: APR/CKL

DATE: 2/20/19

1690009338

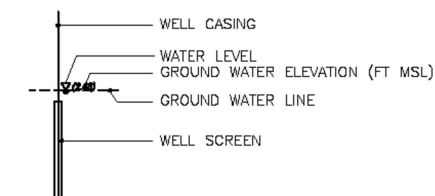


SECTION A - A'



SECTION B - B'

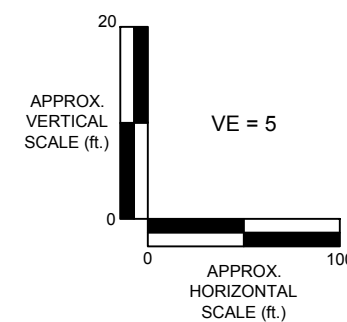
LEGEND



CL - SANDY CLAY/CLAY TAN TO ORANGE TO GRAY

SM - SILTY SAND, LIGHT BROWN TO GRAY, FINE TO MEDIUM GRAINED

SC - CLAYEY SAND, LIGHT TO DARK BROWN, LOOSE TO STIFF



CROSS SECTIONS A-A' AND B-B'
 COLONIAL TERMINALS, INC.
 373 NORTH LATHROP AVENUE
 SAVANNAH, GEORGIA

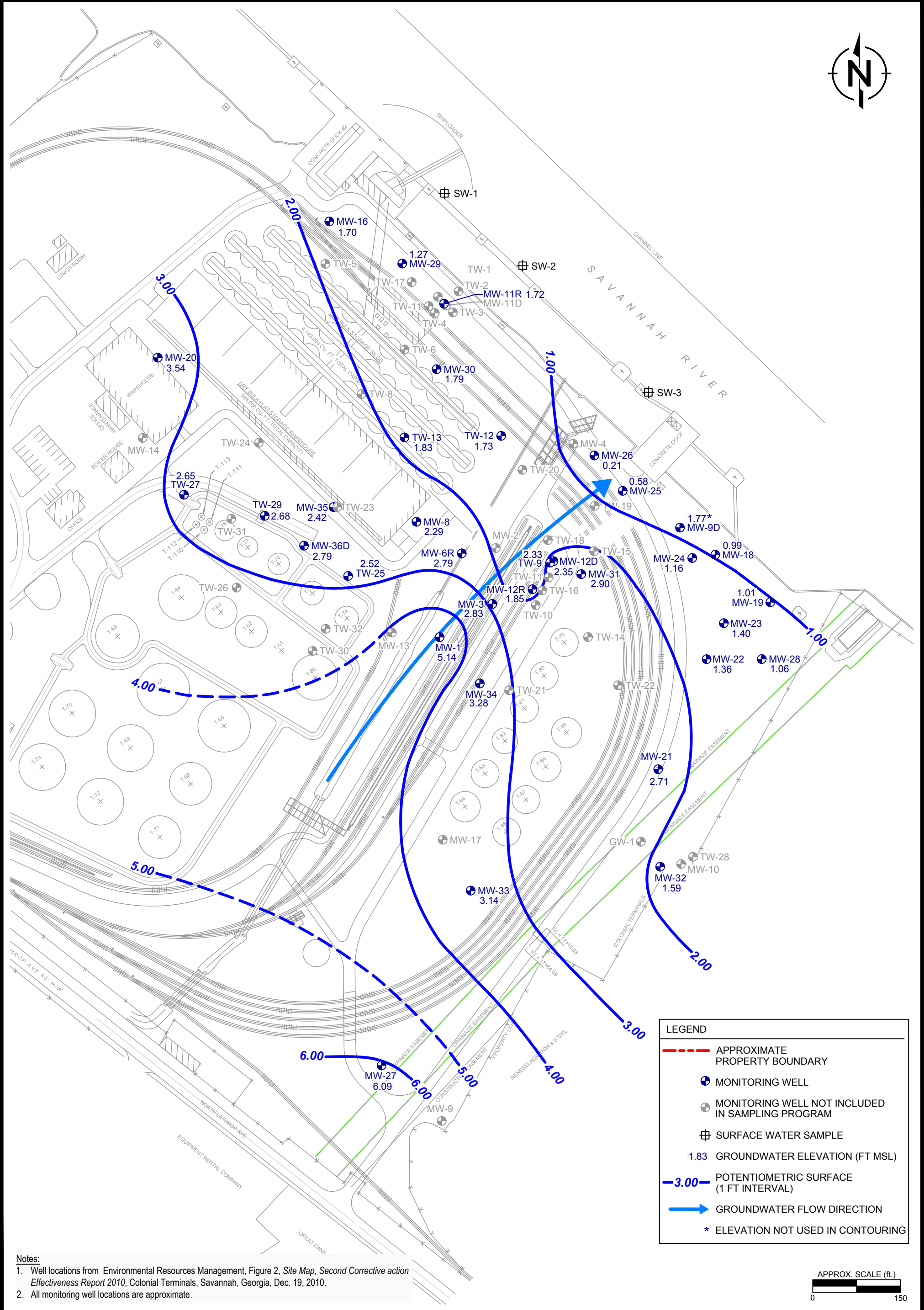


**FIGURE
6**

DRAFTED BY: APR/CKL

DATE: 2/15/19

1690009338



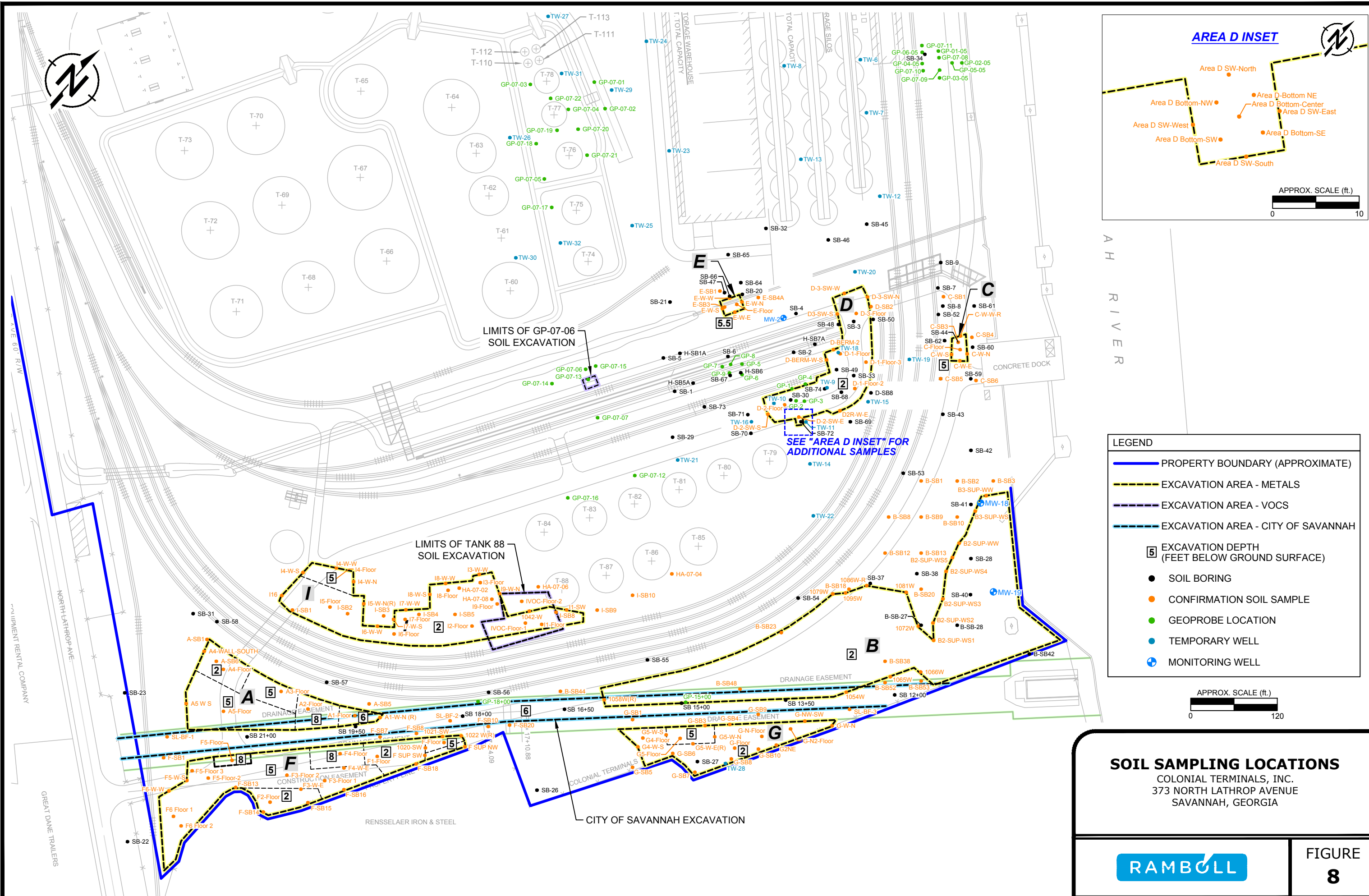
GROUNDWATER POTENTIOMETRIC SURFACE MAP (2010)

COLONIAL TERMINALS, INC.
373 NORTH LATHROP AVENUE
SAVANNAH, GEORGIA

FIGURE

7

L:\Loop Project Files\CAD\1690009338_Colonial-Plant 2_CSR\2019-02\08_Soil Sampling Locations.dwg



LEGEND

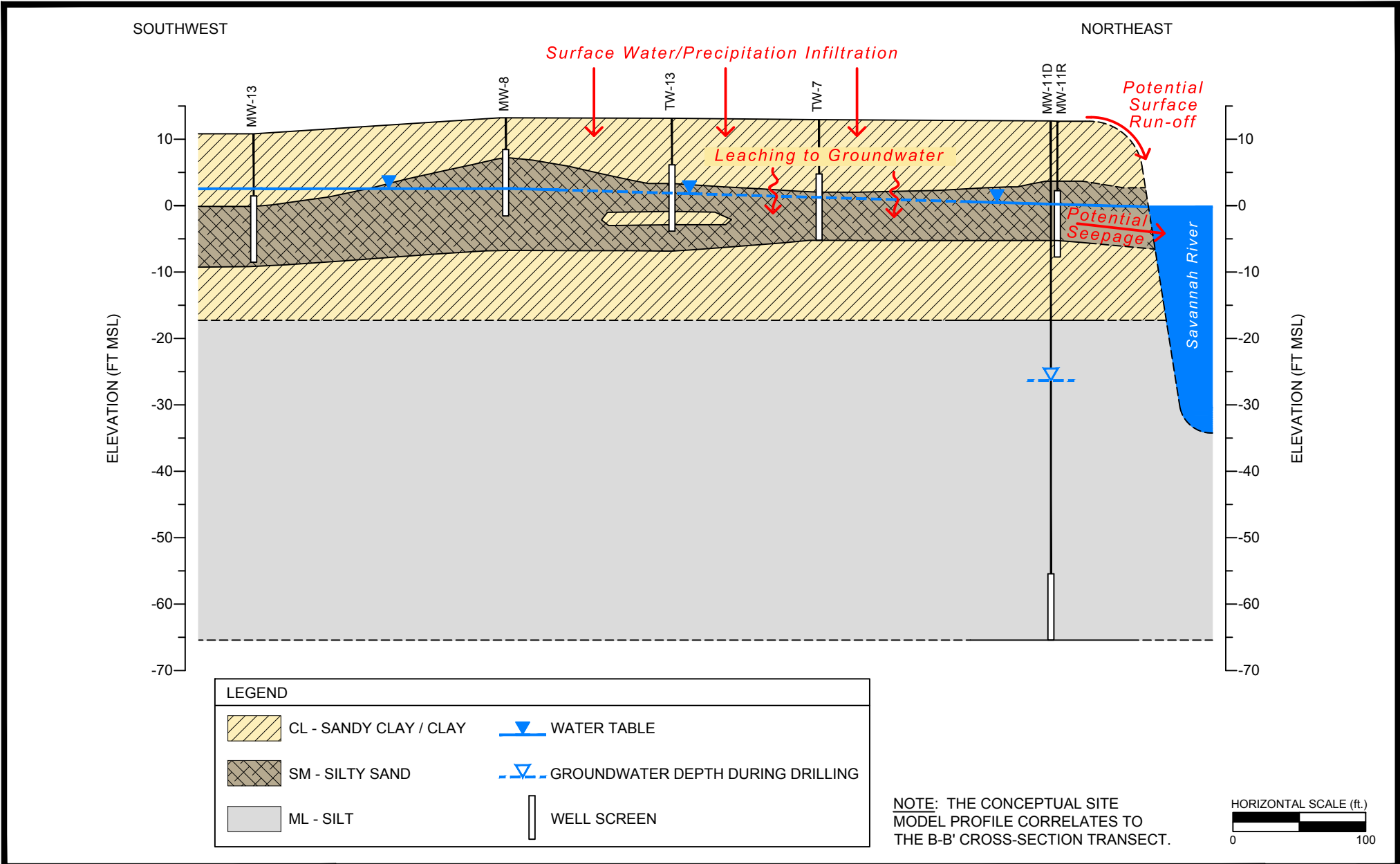
- PROPERTY BOUNDARY (APPROXIMATE)
- EXCAVATION AREA - METALS
- EXCAVATION AREA - VOCs
- EXCAVATION AREA - CITY OF SAVANNAH
- 5 EXCAVATION DEPTH (FEET BELOW GROUND SURFACE)
- SOIL BORING
- CONFIRMATION SOIL SAMPLE
- GEOPROBE LOCATION
- TEMPORARY WELL
- MONITORING WELL

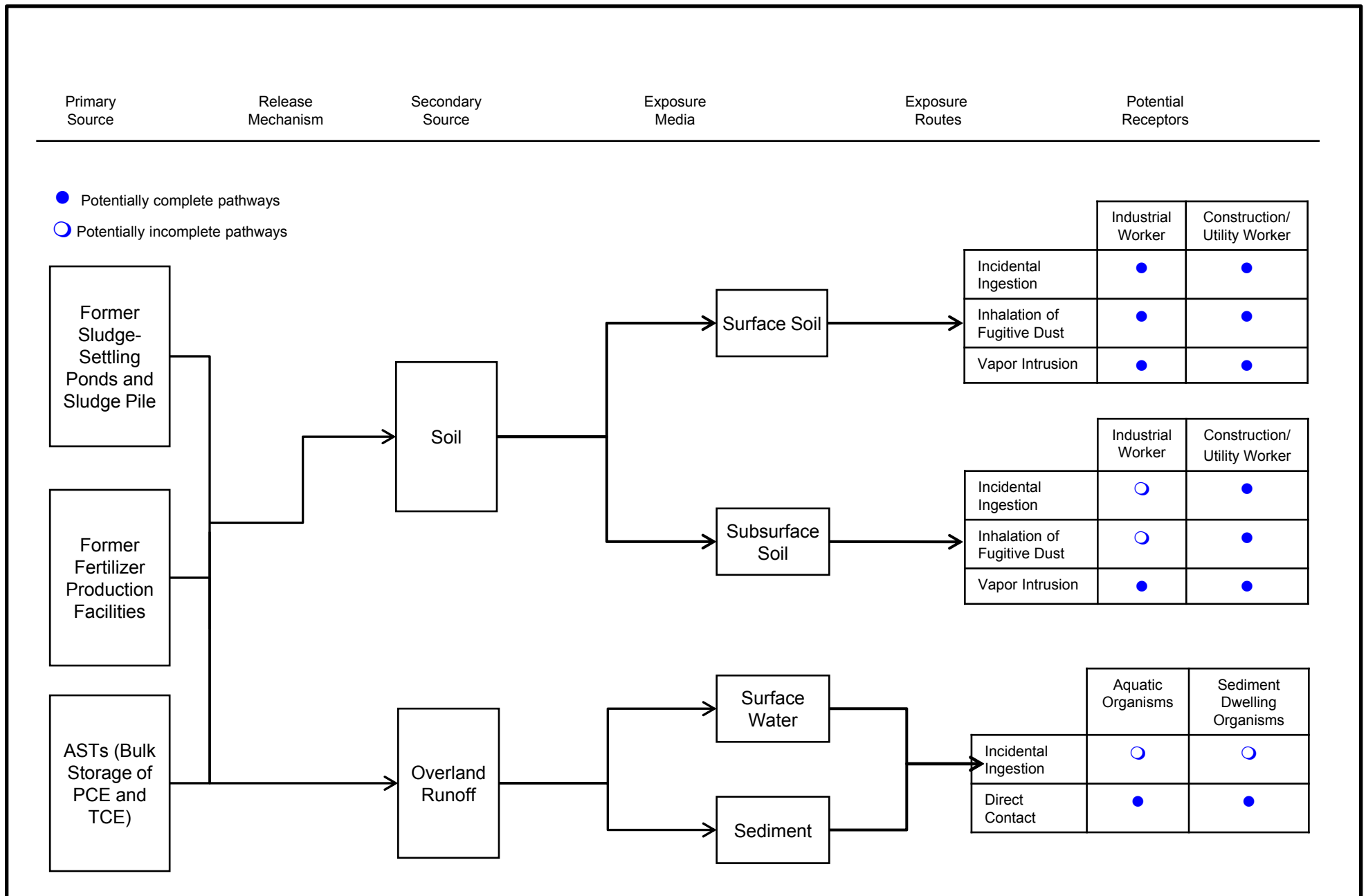
APPROX. SCALE (ft.)
0 120

SOIL SAMPLING LOCATIONS
 COLONIAL TERMINALS, INC.
 373 NORTH LATHROP AVENUE
 SAVANNAH, GEORGIA



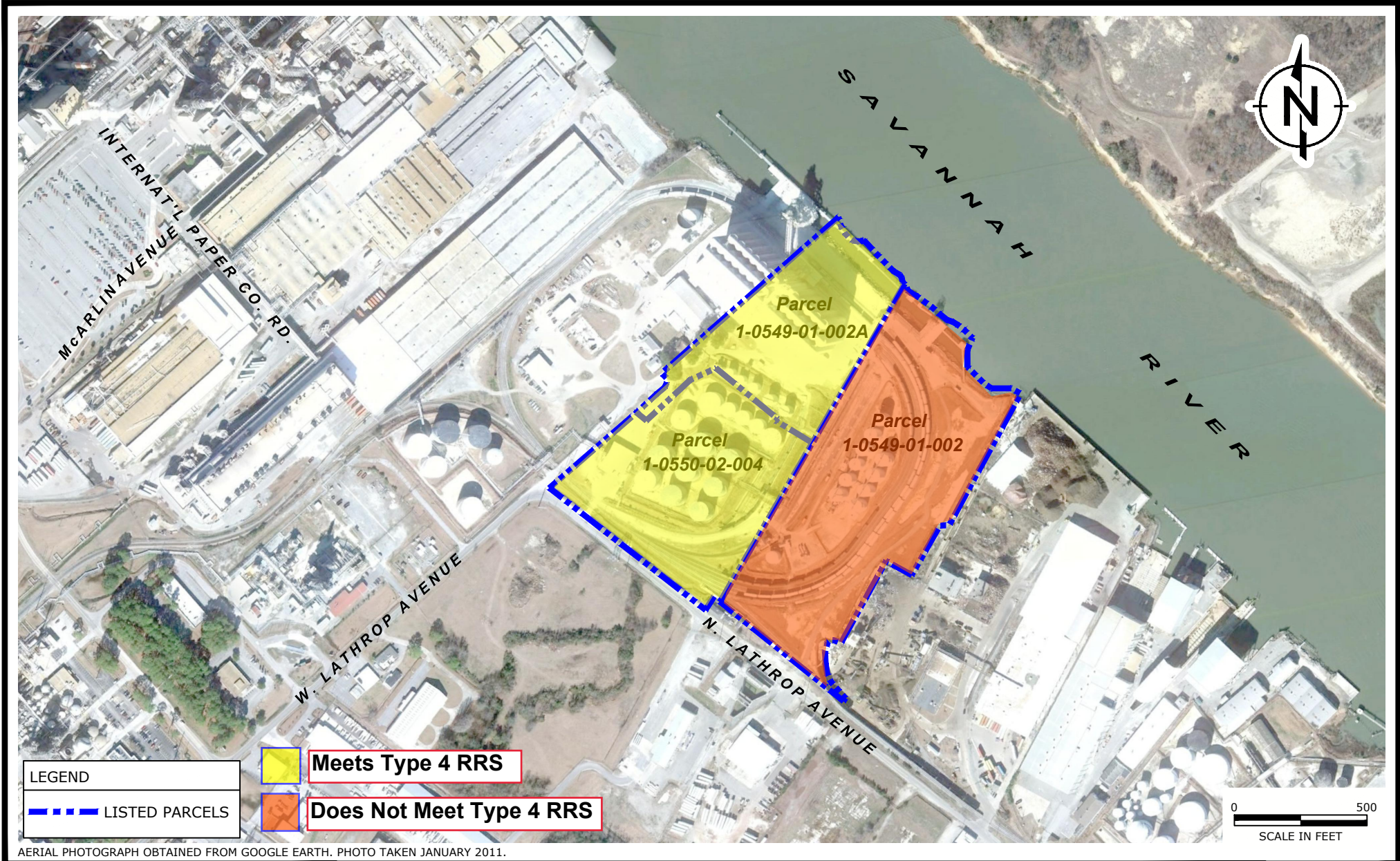
FIGURE
8





CONCEPTUAL SITE MODEL
 COLONIAL TERMINALS, INC.
 373 N. LATHROP AVENUE
 SAVANNAH, GEORGIA

Figure
10



TAX PARCEL MAP AND SUBSURFACE SOIL RRS CATEGORIES

COLONIAL TERMINALS, INC.

373 NORTH LATHROP AVENUE SAVANNAH, GEORGIA

FIGURE

11

APPENDIX A
Legal Description and
Warranty Deed



Tax Parcel Location Map

Colonial Terminals, Inc. (HSI No. 10098)
Savannah, Georgia

Appendix A
Entire Site



Owner: COLONIAL TERMINALS INC
 PIN: 1-0549 -01-002
 Property Address: 373 N LATHROP AVE
 Zoning: [I-H](#)
 Flood Zone: [X](#)
 Aldermanic Code: 0
 Other Municipality: 8
 Commissioner Code: [Dr. Priscilla D. Thomas](#)
 Phone: 912-236-0459
 Voting Precinct: 8-7 C
 Elementary School: PORT WENTWORTH ELEMENTARY
 Middle School: MERCER
 High School: Groves
 Zip Code: 31402-0576
 Neighborhood Code: 9900
 Calculated Acreage: 17.30636043
 Land Value: 3188400
 Building Value: 12626700
 Real-estate Value: 15815100
 Sale Price:
 Sale Month: 10
 Sale Day: 06
 Sale Year: 2006
 Legal Description: PT OF LOTS 3,5&7 WATER WORKS T
 Property Card: [Click Here](#)

Tax Parcel: 1-0549-01-002

Colonial Terminals, Inc. (HSI No. 10098)
 Savannah, Georgia

Appendix A
Parcel -002



Owner: COLONIAL TERMINALS INC
PIN: 1-0549 -01-002A
Property Address: 373 N LATHROP AVE
Zoning: [I-H](#)
Flood Zone: [X](#)
Aldermanic Code: 0
Other Municipality
8
Commissioner Code: [Dr. Priscilla D. Thomas](#)
Phone: 912-236-0459
Voting Precinct: 8-7 C
Elementary School: PORT WENTWORTH ELEMENTARY
Middle School: MERCER
High School: Groves
Zip Code: 31402-0576
Neighborhood Code: 9900
Calculated Acreage: 8.25946936
Land Value: 519200
Building Value: 297500
Real-estate Value: 816700
Sale Price:
Sale Month: 10
Sale Day: 06
Sale Year: 2006
Legal Description: LOT B RECOMBINATION OF PIERPON
Property Card: [Click Here](#)

Tax Parcel: 1-0549-01-002A

Colonial Terminals, Inc. (HSI No. 10098)
Savannah, Georgia

Appendix A
Parcel -002A



Owner: COLONIAL TERMINALS INC
PIN: 1-0550 -02-004
Property Address: 373 N LATHROP AVE
Zoning: [I-H](#)
Flood Zone: [AE](#)
Aldermanic Code: 0
Other Municipality
8
Commissioner Code: [Dr. Priscilla D. Thomas](#)
Phone: 912-236-0459
Voting Precinct: 8-7 C
Elementary School: PORT WENTWORTH ELEMENTARY
Middle School: MERCER
High School: Groves
Zip Code: 31402-0576
Neighborhood Code: 17500
Calculated Acreage: 10.80430816
Land Value: 482400
Building Value: 1685100
Real-estate Value: 2167500
Sale Price:
Sale Month: 10
Sale Day: 06
Sale Year: 2006
Legal Description: LOT A RECOMBINATION OF PIERPON
Property Card: [Click Here](#)

Tax Parcel: 1-0550-02-004

Colonial Terminals, Inc. (HSI No. 10098)
Savannah, Georgia

Appendix A
Parcel -004

THIS WARRANTY DEED, made on the 19th day of April, 1977, between PIERPONT-CORBETT BOX COMPANY, INC., a Georgia corporation, hereinafter referred to as Grantor, and COLONIAL LAND COMPANY, also a Georgia corporation, hereinafter referred to as Grantee;

W I T N E S S E T H :

Grantor, for and in consideration of the sum of Ten (\$10.00) Dollars and other good and valuable considerations, to it paid at and before the signing and sealing of these presents, the receipt whereof is hereby acknowledged, has granted, bargained, sold, aliened, conveyed and confirmed, and by these presents does grant, bargain, sell, alien, convey and confirm unto Grantee, its successors and assigns, those parcels of land situate, lying and being in the County of Chatham, State of Georgia, and more fully described in the legal description attached hereto as Exhibit "A" and which is expressly made a part hereof, and also all of Grantor's right, title and interest in and to that certain irrevocable easement over, under, across and through the portion of river bottom and inter-tidal area lying between the bluff line (high water line) of the Savannah River and the channel line of the Savannah River adjacent to the parcels of land described in Exhibit "A" granted by instrument dated August 16, 1976, from the State Properties Commission, for and on behalf of the State of Georgia to Grantor, recorded in the Office of the Secretary of State of Georgia on August 27, 1976, and recorded in the Office of the Clerk of the Superior Court of Chatham County, Georgia, in Deed Book 107-R, folio 865.

To have and to hold the premises, with all and singular the rights, members and appurtenances thereof, to the same belonging, or in anywise appertaining, and also all buildings, sheds, fences and all other building improvements now located upon the above-described land, to the only proper use and benefit of Grantee, its successors and assigns, in fee simple, subject only to the exceptions to title noted in Exhibit "B", which is attached hereto and expressly made a part hereof.

And Grantor, its successors and assigns, shall and will (subject only to the aforesaid exceptions to title noted in Exhibit "B") warrant and forever defend by virtue of these presents, the bargained premises unto Grantee, its successors and assigns, and against Grantor, its successors and assigns and all and every other person or persons.

IN WITNESS WHEREOF, the Grantor has executed this Warranty Deed under seal on the day and year first above written.

PIERPONT-CORBETT BOX COMPANY, INC.

Signed, sealed and delivered in the presence of:

By: [Signature]
President

[Signature]
Unofficial Witness

Attest: [Signature]
Secretary

[Corporate Seal]

[Signature]
Notary Public, Chatham County, Georgia



[Notary's Seal]

MARY J. THOMAS
Notary Public, Chatham County, Ga.
My Commission Expires Mar. 11, 1977

Chatham County, Georgia
Real Estate Transfer Tax
Paid \$ 2000.00 Date 4/20/77
[Signature]
Pop. Clerk of Sup. Court

EXHIBIT "A"

704

PROPERTY DESCRIPTION

PARCEL ONE

ALL that certain lot, tract or parcel of land situate, lying and being in Chatham County, Georgia, containing 22.57 acres and lying between Butler Avenue and the Savannah River as shown on a plat of a 22.57 acre portion of the property of Pierpont-Corbett Box Company located North of North Lathrop Avenue prepared by Hussey, Gay, Bell & McWhorter, Inc., Consulting Engineers, dated December 20, 1976, which has been recorded in Plat Record Book AA, Folio 171, in the Office of the Clerk of the Superior Court of Chatham County, Georgia, and being more particularly described as follows: Beginning at a concrete monument located where the Western right-of-way line of West Lathrop Avenue intersects the Northern right-of-way line of Bulter Avenue; thence North 40°46'40" West along the said Northern right-of-way line of Butler Avenue 558.33 feet to a concrete monument; thence North 48°17'10" East 1575.51 feet to a point (hereinafter sometimes referred to as Point "A"); thence North 75°43' East 72.45 feet to a point; thence South 63°23'50" East 30.41 feet to a point; thence South 52°13' East 100.05 feet to a point; thence South 52°47'20" East 200.04 feet to a point; thence South 61°03'30" East 80.62 feet to a point; thence South 71°22'50" East 73.38 feet to a point; thence South 51°53'50" East 79.95 feet to a point (hereinafter sometimes referred to as Point "B"); thence South 47°50'40" West 1127.89 feet to an old concrete monument; thence South 48°20'20" West 335.42 feet to a concrete monument located on the Northern right-of-way of North Lathrop Avenue; continuing thence South 48°20'20" West 30.60 feet to an old concrete monument; thence North 51°57'40" West 25.41 feet to a point on the Western right-of-way line of West Lathrop Avenue; thence South 48°20'20" West along said Western right-of-way line of West Lathrop Avenue 325.90 feet to a point of beginning.

AND ALSO, all right, title and interest in and to the land lying between the Western boundary line of the above-described 22.57 acre tract of land extended from the aforesaid Point "A" North 48°17'10" East to the mean low water line of the Savannah River and the Eastern boundary line of the above-described tract of land extended from the aforesaid Point "B" North 47°50'40" East to the mean low water mark line of the Savannah River.

Said property as a whole being bounded generally as follows: On the North by the mean low water line of the Savannah River, on the East by the common boundary line between the 22.57 acre tract of land described above and the 7.53 acre tract of land also owned by Pierpont-Corbett Box Company, Inc. and conveyed contemporaneously herewith to Colonial Land Company (Parcel Two below) and a 30-foot wide county road right-of-way, on the South by Butler Avenue and on the West by the common boundary line between the aforesaid 22.57 acre tract of land and lands of Union Camp Corporation.

The above-described property being the same property conveyed to Pierpont-Corbett Box Company, Inc. by the Pierpont Manufacturing Company (formerly known as Pierpont Manufacturing Company of Georgia and Florida) by deed dated March 30, 1964 and recorded in the Office of the Clerk of the Superior Court of Chatham County, Georgia, in Deed Book 85-2, Folio 151.

PARCEL TWO

ALL that certain lot, tract or parcel of land situate, lying and being in Chatham County, Georgia, containing 7.53 acres and lying between North Lathrop Avenue and the Savannah River as shown on a plat of a 7.53 acre portion of the property of Pierpont-Corbett Box Company located North of North Lathrop Avenue prepared by Hussey, Gay, Bell & McWhorter, Inc., Consulting Engineers, dated December 20, 1976, which has been recorded in Plat Record Book AA, Folio 172, in the Office of the Clerk of the Superior Court of Chatham County, Georgia, and being more particularly described as follows: Commencing at a point where the Eastern right-of-way line of West Lathrop Avenue extended intersects the Northern right-of-way line of North Lathrop Avenue; thence North 48°20'20" East 299.41 feet to a concrete monument; thence North 47°50'40" East 180.65 feet to a concrete monument; thence North 42°09'20" West 30 feet to an old concrete monument; thence North 47°50'40" East 947.37 feet to a point (hereinafter sometimes referred to as Point "B") on the Bluff line or approximate mean high water line of the Savannah River; thence 32°32'10" East 46.30 feet to a point; thence South 31°02'30" East 53.14 feet to a point; thence South 65°24'50" East 51.66 feet to a point; thence South 55°24'50" East 50.16 feet to a point; thence South 48°33' East 50.04 feet to a point; thence South 46°16' East 50.16 feet to a point; thence South 46°53'20" East 29.03 feet to a point; thence South 14°16'30" East 17.36 feet to a point

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(hereinafter sometimes referred to as Point "C"); thence South 29°54'40" West 6 feet to an old concrete monument; continuing thence South 29°54'40" West 630.60 feet to a point; thence North 59°54'40" West 150.15 feet to a concrete monument; thence North 29°20'20" East 13.40 feet to a railroad iron; thence North 52°03'40" West 268.69 feet to a railroad iron; thence South 66°22'20" West 97.75 feet to a concrete monument; thence South 45°34'20" West 233.22 feet to a concrete monument; thence North 52°14'40" West 52 feet to a concrete monument; thence South 47°46'20" West 421.35 feet to an old concrete monument located on the Northern right-of-way line on North Lathrop Avenue; thence North 52°07'40" West along the said Northern right-of-way line of North Lathrop Avenue 22.55 feet to the point of beginning.

AND ALSO, all right, title and interest in and to the land lying between the Western boundary line of the above-described 7.53 acre tract of land extended from the aforesaid Point "B" North 47°50'40" East to the mean low water line of the Savannah River and the Eastern boundary line of the above-described tract of land extended from the aforesaid Point "C" North 29°54'40" East to the mean low water line of the Savannah River.

Said property as a whole being irregular in shape and being bounded generally as follows: On the North by the mean low water line of the Savannah River, on the East by the common boundary line between the 7.53 acre tract of land described above and lands formerly of Swift Agricultural Chemicals Corporation now owned by Colonial Land Company, on the East and South by the common boundary line between the 7.53 acre tract of land described above and lands of Colonial Oil Industries, Inc., on the South by North Lathrop Avenue and on the West by a 30-foot wide county road right-of-way and the common boundary line between the 7.53 acre tract of land described above and the 22.57 acre tract of land also owned by Pierpont-Corbett Box Company, Inc. and conveyed contemporaneously herewith to Colonial Land Company (Parcel One above).

Being the same property conveyed to Pierpont-Corbett Box Company, Inc. by the Savannah Port Authority by deed dated July 1, 1976 and recorded in said Clerk's Office in Deed Book 107-A, Folio 802.

EXCEPTIONS TO TITLE

1. Ad valorem taxes for 1977 and subsequent years.
2. Easements granted to the Mayor and Aldermen of the City of Savannah to install, maintain and operate a water pipeline under and across a portion of the property as shown in Plat Record Book "C", folio 31, in the Office of the Clerk of the Superior Court of Chatham County, Georgia, granted by instruments dated May 9, 1948; June 11, 1948; and August 4, 1948, and recorded in Deed Books 47-B, folio 257; 47-D, folio 258; and 47-M, folio 485, respectively, in said Clerk's Office.
3. Right-of-way easements granted to Seaboard Airline Railroad Company for railroad tracks and any other proper and appropriate railroad purposes across a portion of the property described in instruments dated August 1, 1954 and December 21, 1954, recorded in Deed Books 60-R, folio 5 and 61-H, folio 437, respectively, in said Clerk's Office and as shown on plat recorded in Plat Book F, folio 307, in said Clerk's Office.
4. Easements granted to South Atlantic Gas Company for the construction and maintenance of an underground gas transmission system granted by instrument dated August 30, 1957, recorded in Deed Book 67-U, folio 189, in said Clerk's Office, and as shown on plat recorded in Plat Record Book "H", at folio 325, said Clerk's Office.
5. Easement granted to South Atlantic Gas Company for the construction and maintenance of an underground gas transmission system under, upon and along a five foot wide strip as shown on the plat recorded in said Clerk's Office in Plat Record Book "P", folio 63, as granted by instrument dated April 9, 1964, and recorded in Deed Book 85-X, folio 103, in said Clerk's Office.
6. Right, title or interest of the State of Georgia, if any, in and to the area between the high and low water lines of the Savannah River lying adjacent to the property.

Filed For Record At 2:58 O'Clock ^P.....M. On The
20 Day Of April.....1977
 Recorded In Record Book 108-K Folio 203
 On The.....20 Day Of April.....1977.....

APPENDIX B
Voluntary
Remediation Plan
and Application
(Environ, 2012)



November 13, 2012

Mr. David Brownlee
Unit Manager
Response and Remediation Program
Georgia Department of Natural Resources
Environmental Protection Division
Hazardous Sites Response Program
2 Martin Luther King Jr. Dr. SE Suite 1462 East
Atlanta, GA 30334

**Re: Voluntary Remediation Plan Application
Colonial Terminals, Plant #2
Georgia Hazardous Site Inventory No. 10098**

Dear Mr. Brownlee:

On behalf of our client, Colonial Terminals, Inc., ENVIRON is pleased to submit this application for enrollment of the referenced site into the Voluntary Remediation Program.

Enclosed are the application form and supporting documents, as well as a check for the \$5,000 application fee. This application requests the transfer of this site from the Hazardous Site Inventory to the Voluntary Remediation Program.

If you have any questions about the attached report, or any other project matter, please feel free to contact us at any time.

Sincerely,

A handwritten signature in black ink, appearing to read "Ryan Slakman".

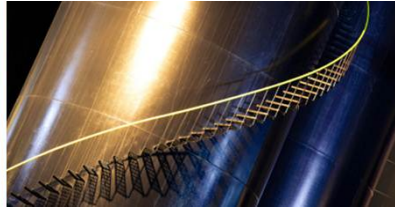
Ryan Slakman, MPH
Project Manager
678.388.1663
rslakman@environcorp.com

A handwritten signature in black ink, appearing to read "Jeff Margolin".

Jeff Margolin, RHSP
Principal
678.388.1644
jmargolin@environcorp.com

Enclosures

cc: Jim Baker, Colonial Terminals, Inc.
Tom Dolan, Colonial Terminals, Inc.
Michael Skinner, Michael J. Skinner Consulting, LLC
Kenneth Anderson, ConAgra Foods, Inc.



Voluntary Remediation Plan and Application Colonial Terminals, Plant #2

Prepared for:
Colonial Terminals, Inc.
Savannah, Georgia

Prepared by:
ENVIRON International Corporation

November 2012

Project Number:
07-30114B



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Acronyms and Abbreviations

11DCE	1,1-dichloroethene
12DCE	1,2-dichloroethene
ft amsl	Feet Above Mean Sea Level
AST	Aboveground Storage Tank
cm/sec	Centimeters per Second
CAP	Corrective Action Plan
CSM	Conceptual Site Model
CSR	Compliance Status Report
EDR	Environmental Data Resources
EPD	Georgia Environmental Protection Division
ft bgs	Feet Below Ground Surface
ft/day	Feet per Day
HSI	Hazardous Site Inventory
HSRA	Hazardous Site Response Act
kg	Kilograms
m ³ /day	Cubic Meters per Day
MeCl	Methylene Chloride
mg/day	Milligrams per Day
mg/kg	Milligrams per kilogram
PCE	Tetrachloroethylene
RME	Reasonable Maximum Exposure
RRS	Risk Reduction Standards
SVE	Solid Vapor Extraction
TCE	Trichloroethylene
UCL	Upper Confidence Limit
USEPA	United States Environmental Protection Agency
VC	Vinyl Chloride
VOC	Volatile Organic Compound
VRP	Georgia Voluntary Remediation Program

1 Introduction

This application to the Georgia Voluntary Remediation Program (VRP) has been prepared for a portion of the Colonial Terminals, Plant #2 (Colonial) property located at 373 North Lathrop Avenue, Savannah, Chatham County, Georgia (Figure 1). The approximately 78-acre property is comprised of six adjacent parcels of land identified by the Chatham County Board of Assessors as Tax Parcel IDs 1-0549-01-002 (4 parcels maintain this ID), 1-0549-01-002A, and 1-0550-02-004. The highly industrialized property is bordered by the Savannah River and is improved with administrative buildings, warehouses, bulk aboveground storage tanks (ASTs) and silos, shipping docks, truck loading racks, pipe racks, and rail spurs (Figure 2).

The subject property has been developed for industrial purposes since at least 1950 and was formerly used for the manufacture of fertilizers from the late 1950s through the late 1970s. Two sludge-settling ponds were historically used onsite for the capture of wastewater sludge associated with the fertilizer manufacturing operations. Since the late 1970s, the property has been used as a bulk storage facility for a variety of products including chlorinated solvents, petroleum compounds, food-grade products, and kaolin clay.

The property has been the subject of a number of previous environmental assessments that were conducted between 1984 and 2011. On June 29, 1994, three of the six parcels that comprise the property (Figure 2) were listed on the Georgia Environmental Protection Division's (EPD's) Hazardous Site Inventory (HSI, No. 10098) for a known release of metals and volatile organic compounds (VOCs) to the soil and groundwater. These three parcels (1-0549-01-002, 1-0549-01-002A, and 1-0550-02-004) are the subject of this application and are referred to herein as the "site." Historical remedial activities at the site have consisted of soil excavation and chemical injections into the groundwater. Current corrective action at the site consists of treatment of localized soils with a solid vapor extraction (SVE) system and annual groundwater monitoring.

2 Site Background

According to the Chatham County Board of Assessors, the site is owned and maintained by Colonial, and consists of Tax Parcel IDs 1-0549-01-002, 1-0549-01-002A, and 1-0550-02-004. A warranty deed with a legal description of the property and a tax plat map are included in **Appendix A**. The previous site owners include Virginia-Carolina Chemical Company (now Exxon Mobil Corporation) and Swift Agricultural Chemicals Corporation (now BFEL Indemnitor, Inc.).

2.1 Site Description

The approximately 34.6-acre site is a bulk petroleum and chemical storage facility that is located along the Savannah River, directly across from the northern end of Hutchinson Island. The site is developed with an approximately 60,000-square foot warehouse, approximately 50 ASTs, truck loading areas, a fueling station, and a loading dock for barges along the Savannah River. The ASTs are located within earthen dikes or concrete holding tanks. Exterior areas of the site consist of gravel-covered roads and parking areas, rail spurs, earthen-bermed tank farms, and the concrete-paved loading dock along the Savannah River. The site is bordered to the north by the Savannah River, to the west by the unlisted portions of the Colonial property, and by industrial properties to the south and east. The site is accessed from West Lathrop Avenue at

the southwest site boundary. Surface water at the site generally travels via sheet flow or by storm water ditches towards the Savannah River.

2.2 Site History

The site was formerly owned and operated by Virginia-Carolina Chemical Company and Swift Agricultural Chemicals Corporation for the manufacture of fertilizers from the late 1950s through the late 1970s. During that time, the site maintained two sludge-settling ponds and an adjacent sludge pile that have been documented as likely sources of impacts at the site, and historical fertilizer production facilities were present at various locations to the east side of the current rail yard (ERM, 2011). Since the late 1970s, Colonial has owned and operated the site for use as a bulk storage facility for various chemicals, petroleum, and kaolin clay. According to previous investigations and facility personnel, trichloroethylene (TCE) and tetrachloroethylene (PCE) were transferred from vessels to railcars and then to trucks in the area adjacent to the two former settling ponds and sludge pile from 1981 through 1985. Bulk storage of PCE and TCE at the site occurred in ASTs T-77 and T-78, located near the central northern end of the site, from 1985 through 1990, and in the adjacent ASTs 110 through 113 from 1991 through 2007 (TCE) and 2009 (PCE).

2.3 Summary of Previous Investigations

An investigation of the former settling ponds and sludge pile was conducted by the United States Environmental Protection Agency (USEPA) in 1984 and identified the presence of TCE at the site. Following an evaluation by the EPD in June 1994, the site was listed on the HSI for known releases of metals and VOCs to the soil and groundwater. In addition, methylene chloride (MeCl) and PCE degradation products 1,2-dichloroethene (12DCE); 1,1-dichloroethene (11DCE); and vinyl chloride (VC) were identified in soil and groundwater at the site during subsequent investigations. An initial Compliance Status Report was submitted to EPD in 1999, and since that time numerous reports have been submitted for the site, including the following that were used in the completion of this VRP application:

- Corrective Action Plan 4th Revision, prepared by Environmental Resources Management, dated October 24, 2005 (ERM, 2005).
- Corrective Action Plan for Volatile Organic Compounds, prepared by MACTEC Engineering and Consulting, dated August 2006 (MACTEC, 2006).
- Performance Standards Verification Report, prepared by Environmental Resources Management, dated January 15, 2007 (ERM, 2007a).
- Interim Design Report for VOC Corrective Action, prepared by MACTEC Engineering and Consulting, dated October 5, 2007 (MACTEC, 2007).
- Revised Corrective Action Plan for Volatile Organic Compounds, prepared by Environmental Resources Management, dated December 2007 (ERM, 2007b).
- Revised Corrective Action Plan for Volatile Organic Compounds, prepared by Environmental Resources Management, dated January 2009 (ERM, 2009a).
- Final Compliance Status Report for Metals in Soil, prepared by Environmental Resources Management, dated August 23, 2009 (ERM, 2009b).
- First Annual Groundwater CAER and Response to EPD Comment Letter, prepared by Environmental Resources Management, dated January 29, 2010 (ERM, 2010a).

- Revised Compliance Status Report for Metals in Soil, prepared by Environmental Resources Management, dated July 15, 2010 (ERM, 2010b).
- Second Corrective Action Effectiveness Report for Groundwater 2010, prepared by Environmental Resources Management, dated January 31, 2011 (ERM, 2011a).
- Revised Compliance Status Report for Metals in Soil, prepared by Environmental Resources Management, dated August 2011 (ERM, 2011).

Corrective actions for soil and groundwater at the site have been implemented since approximately 2005. A summary of these actions is provided in the following sections.

2.3.1 Summary of Corrective Actions – Soil

Corrective action of the soil at the site commenced in 2007 and includes the removal and treatment of impacted soil. A summary of the removal actions that have been undertaken at the site is provided below, and these excavation areas are illustrated in **Figure 3**:

- Approximately 23,415 tons of lead and/or arsenic-impacted soils were removed from eight distinct areas of the site in October through December 2007.
- Approximately 812 tons of VOC-impacted soils were removed adjacent to Tank T-88 at the southeast portion of the site in December 2007.
- Approximately 38 tons of soils were removed from the area surrounding the historical soil boring GP-07-06 in February and March 2009.

In addition to the soil removal activities, an SVE system was installed in 2009 for the purpose of addressing VOC impacts in the vicinity of Tank 75 through Tank 78 (**Figure 3**). The SVE system consists of a gallery of six SVE extraction wells, a vacuum blower, control panel, moisture knockout tank, and emission controls (activated carbon). Monthly air sampling and maintenance of the SVE system is ongoing.

2.3.2 Summary of Corrective Actions – Groundwater

In order to address metals and VOC impacts to the groundwater, a chemical injection program was proposed as part of the 2009 Revised Corrective Action Plan (CAP) for VOCs and was implemented in February through April 2009. A total of 250 injection wells were installed at the site, and more than 150,000 gallons of solution containing persulfate, lime, and caustic were injected into the groundwater. In addition, a network of 34 groundwater monitoring wells (**Figure 4**) have been sampled annually from 2008 through 2010 for VOCs, metals, and monitoring parameters (to gauge the effectiveness of the chemical injections).

2.3.3 Type 5 Risk Reduction Standards

In April 2006, EPD approved Type 5 risk reduction standards (RRS) for two conditions at the site:

- Areas within 12 feet of the railroad centerline where excavations could result in a loss of structural integrity of the tracks; and,
- Deep soil adjacent to retaining walls and loading docks along the Savannah River.

The Type 5 RRS areas are depicted in **Figure 5**. Engineering and institutional controls are maintained for these areas, including a Restrictive Covenant on the deeds for the three parcels that comprise the site.

3 Site Setting

The Colonial Terminals Plant 2 site is located in a highly industrial area of Savannah, Georgia, and is bordered to the north and northeast by the Savannah River (which is in high industrial use and has been altered for that purpose), to the southeast by Georgia Recyclers, to the south by North Lathrop Avenue (on the other side of which is Great Dane Trailers), and to the west by Arboris, LLC and International Paper Company's Savannah Pulp and Paper Mill. With the exception of the earthen berms at the site that surround the ASTs, the surface topography at the site is relatively flat and ranges from approximately 9 feet above mean sea level (ft amsl) at the southern and western property boundaries to approximately 4 ft amsl at the northern property boundary along the Savannah River.

3.1 Site Geology

The site is located in the Barrier Island Sequence District of the Coastal Plain Physiographic Province of Georgia. Regional soils are characterized by Pleistocene and Holocene barrier island deposits and marsh and lagoon deposits. Pleistocene sea levels advanced and retreated several times over the Coastal Plain to form a step-like progression of decreasing elevation toward the sea (Clark and Zisa, 1976). The area during the time of the former, higher sea levels existed as barrier island-salt marsh environments similar to the present coast. The changes in sea level left shoreline deposit complexes parallel to the present coastline, composed predominantly of unconsolidated sand and clayey sand deposited during the former high sea levels.

The regional geology has been characterized as Coastal Plain strata consisting of unconsolidated to semi-consolidated layers of sand and clay, and semi-consolidated to very dense layers of limestone and dolomite (Clarke et al, 1990). These sediments range in age from the late Cretaceous to Holocene periods. The strata generally strike southwest and northeast, and dip and gradually thicken to the southeast.

Based on historical site assessment activities, the site geology from land surface to approximately 2 feet below ground surface (ft bgs) consists of sequences of sands, which are underlain by stiff sandy clays that extend to approximately 8 to 10 ft bgs. Clayey sands with clay stringers are present from approximately 10 to 34 ft bgs, below which clay and silt is present to approximately 80 ft bgs. The cross-section transects are illustrated in **Figure 6**, and the cross sections are presented in **Figure 7**.

3.2 Site Hydrogeology

The Coastal Plain is underlain by multiple aquifers. In the vicinity of the site, the surficial aquifer consists of the Satilla Formation (Payne, Rumman and Clarke, 2005). Beneath the surficial aquifer are the upper and lower Brunswick aquifers, which consist of slightly phosphatic and dolomitic quartz sands and clay confining units. The Brunswick aquifer system is approximately 80 feet thick in the region of the site and has a higher percentage of low permeability, clayey deposits in the Savannah area. The underlying Upper Floridan aquifer, which consists of the Ocala Limestone, is the principal source of water in the coastal area (Clarke et al, 1990).

Due to the proximity of the site to the Savannah River and Atlantic Ocean, the surficial/shallow groundwater at the site is influenced by tidal activity, and the depth to groundwater at the site typically ranges from approximately 3 to 12 ft bgs. Additionally, the shallow groundwater at the

site has a high saline content due to tidal influence and, as such, the groundwater in the shallow surficial aquifer is not potable.

3.3 Hydraulic Characteristics

Slug tests were performed in three wells (MW-16, MW-18, and TW-28) on May 25 and 26, 2006, for the purpose of evaluating the hydraulic conductivity of the shallow aquifer. As shown below, based on the results of the tests, the average hydraulic conductivity of the shallow surficial aquifer at the site is approximately 3.05×10^{-3} centimeters per second (cm/s). Based on the site gradient, and assuming an effective porosity of 20 percent, the groundwater flow velocity is estimated to range between 0.1 feet per day (ft/d) and 0.2 ft/d.

Monitoring Well	Hydraulic Conductivity (K)	
	cm/s	ft/d
MW-16	4.42×10^{-3}	12.53
MW-18	5.44×10^{-3}	15.41
TW-28	2.42×10^{-4}	0.686
Average K	3.37×10^{-3}	9.54

3.3.1 Groundwater Flow Direction

The most recent water level measurements were collected on August 31 and September 1, 2010, and ranged from 0.21 to 6.09 ft amsl. A summary of the depth-to-groundwater measurements and corresponding groundwater elevation data are presented in **Table 1**. The groundwater elevation data were used to prepare a groundwater potentiometric map in order to estimate groundwater flow direction for the surficial aquifer (**Figure 8**).

Based on the potentiometric map and groundwater elevation data, groundwater flow at the site is generally to the northeast and is flowing with an average gradient of 0.0015 feet/foot from the shallow aquifer into the Savannah River. Additionally, the average hydraulic gradient for the deep surficial aquifer is -0.0130 feet/foot, indicating that recharge to the deep surficial aquifer from the river is occurring. A more detailed discussion of the hydraulic gradients and interface between groundwater at the site and the Savannah River is presented in **Appendix B**.

4 Nature and Extent of Contamination

Based on data presented in the historical reports identified in Section 2.3, substances that are regulated under the Georgia Hazardous Site Response Act (HSRA) are present in the soil and groundwater at the site that exceed background concentrations or the Type 1 RRS (**Table 2**; ENVIRON, 2012). The following subsections describe potential sources of the contamination and the nature and extent of contamination in the impacted media.

4.1 Potential Sources

The heavily industrialized site formerly housed fertilizer manufacturing operations, and has been used as a bulk storage facility for a variety of products since the late 1970s. Based on a review of available historical information pertaining to the site, there were two potential source areas for metals and VOC impacts at the site:

- Two former sludge-settling ponds and an associated sludge pile located at the north-northeast portion of the site; and,
- Historical fertilizer production facilities on the eastern side of the rail yard.

In addition, the VOC impacts in the northwest portion of the property may be due to chemical handling in proximity to the ASTs that stored PCE and TCE (Tanks T-77, T-78, and 110 through 113) from 1991 through 2009, as well as the associated transfer lines.

The ponds were closed in place, and soils from these areas were excavated in 2007. In addition, the site discontinued storage of TCE in 2007 and PCE in 2009.

4.2 Soil

The site has been the subject of extensive soil sampling from 1999 through 2007 as part of investigation and remediation efforts. Based on the results of the soil sampling activities, and in coordination with GA EPD, more than 23,000 tons of lead- and arsenic-impacted soil and approximately 850 tons of VOC-impacted soil have been excavated and removed from the site (as discussed in Section 2.3.1). In addition, Colonial maintains an SVE system to address localized VOC impacts in the area of Tanks T-77 and T-78.

The concentrations of regulated substances that currently exist in the soil at the site are presented in **Table 3**, and illustrated in **Figure 9**. As documented in **Table 3** and **Figure 9**, metal impacts in the soil at the site have been delineated. The lone exception to this is for lead and arsenic across the southeastern site boundary, where attempts to get access to the adjacent property have not been successful. Colonial has repeatedly requested and been denied access to this property (as detailed in historical correspondence with EPD).

The soil samples collected in April and August 2007 (GP-07-01 through GP-07-22) completed the delineation of VOC impacts in the soil to the north and west of the site. Following those efforts, additional soil borings (HA-07-01 through HA-07-09) were installed by Tank T-88 in October and November 2007 to complete the delineation of VOC impacts in the soil at the site. As presented in the Revised Corrective Action Plan for Volatile Organic Compounds, the results of this sampling “confirm that soil delineation is complete” for VOCs (ERM, 2009).

4.3 Groundwater

For the purpose of assessing VOC and metals impacts to the groundwater, a network of 34 groundwater monitoring wells have been installed (**Figure 4**) and were sampled annually from 2008 through 2010 for VOCs, metals, and various other parameters. Based on the results of the most recent groundwater sampling event and the historical data (**Table 4**), delineation in the groundwater has been achieved for VOCs. In additional, metal impacts in the groundwater have been delineated, with the lone exception of arsenic and lead across the southeastern site boundary. However, as discussed in Section 4.2, despite repeated attempts Colonial has not received access to this adjacent property.

In addition, as a further measure of groundwater delineation in the downgradient direction, ENVIRON estimated potential concentrations of regulated substances in the groundwater based on interactions between groundwater and the Savannah River. The predicted concentrations in the Savannah River are significantly less than the Type 1 groundwater RRS and the Georgia ISWQS (**Appendix B, Table 5**). A more detailed discussion of the river dilution calculations is presented in **Appendix B**.

4.4 Surface Water

Surface water samples from the Savannah River were collected three times in 2007 and once in 2010 as part of the 2010 groundwater monitoring event. The most recent, and therefore the most representative, data indicate that the surface water at the site has not been impacted (**Table 5**). The locations of the surface water sampling locations are illustrated in **Figure 4**.

4.5 Summary

Based on current site conditions, horizontal and vertical delineation has been achieved for the site-related regulated substances in the soil and groundwater at the site.

5 Exposure Assessment

Potential exposure pathways and receptors for the site have been identified in previous reports, as well as during a recent assessment of current conditions. This section summarizes the potential exposure pathways and receptors, as well as the potential sources of the contamination present at the site.

5.1 Conceptual Site Model

A conceptual site model (CSM) that identifies potential contaminant sources, exposure pathways, and receptors is presented in **Figure 10** and **Figure 11**. The CSM is based on available site information, including data from soil, groundwater, and surface water investigations that were conducted at the site between 2000 and 2011. A discussion of the components of the CSM is presented below.

5.2 Potential Sources

The potential sources of the impacts at the site were discussed in Section 4.1, and include two former sludge-settling ponds and an associated sludge pile, historical fertilizer production activities, and former PCE and TCE storage tanks and associated transfer lines. The settling ponds have been closed in place and their overlying soils excavated. Additionally, Colonial discontinued storage of chlorinated solvents in 2009. As such, no current sources of contamination are known to be present onsite.

5.3 Well Survey

Based on a windshield survey conducted by ENVIRON in September 2012, and information from a well search conducted by Environmental Data Resources, Inc. (EDR), there are no drinking water wells within 1,000 feet of the site (**Figure 12**). According to the EDR report, the nearest public water supply wells are located approximately 1 mile southwest and hydrogeologically upgradient of the site.

5.4 Potential Exposure Pathways and Receptors

Based on a review of historical data, the potential exposure pathways identified for the site include:

- Exposure to constituents in the soil;
- Exposure to constituents in the groundwater;
- Exposure to constituents in the surface water; and,
- Exposure to constituents due to vapor intrusion from impacted soil or groundwater beneath occupied buildings.

As discussed in Section 2, the site is developed in its entirety for industrial purposes and is improved with one warehouse, bulk storage ASTs, shipping docks, truck loading racks, pipe racks, rail spurs, and a fueling station. Based on the nature of current and expected future site activities, potential receptors at the site are:

- Commercial/industrial workers;
- Utility workers; and,
- Construction workers.

A discussion of these potentially complete pathways and receptors is provided below.

5.4.1 Potential Exposure to Constituents in Soil

Surface soil at the site that is not covered by a building or concrete may be contacted by commercial/industrial, utility, and construction workers. In addition, utility and construction workers may be exposed to surface and subsurface soil at the site. As such, exposure pathways for soil via ingestion and inhalation are potentially complete.

5.4.2 Ingestion and Inhalation of Groundwater

Groundwater at the site is not used as a drinking water source, and no drinking water wells are located within 1,000 feet of the site. As such, groundwater exposure pathways for human receptors associated with ingestion and inhalation are incomplete.

5.4.3 Leaching from Soil to Groundwater

Although metals or VOCs may have leached from the soil, there are no complete direct exposure pathways to groundwater at the site. Therefore, this potential pathway has not been evaluated further.

5.4.4 Vapor Intrusion

Vapor intrusion is considered a complete exposure pathway for routine workers at the site. As discussed further in **Appendix C**, these workers could inhale vapors in indoor air that migrate into buildings from impacted soil or groundwater.

5.4.5 Ecological Receptors

Terrestrial species are unlikely to occur at or near the site due to the lack of natural habitat for cover and foraging, the industrial hardscape, and substantial human activities. Consequently, the possible ecological receptors at the site are limited to aquatic organisms, particularly fish, in the adjacent Savannah River (a more detailed discussion of potential ecological receptors and associated risk are discussed in **Appendix D**).

6 Cleanup Standards

The subject property has been developed for industrial purposes since at least 1950 and has been used as a bulk storage facility for a variety of chemical and petroleum products since the late 1970s. Site-specific cleanup standards were developed for the identified potentially complete exposure pathways; as such, commercial/industrial workers, utility workers, and construction workers were considered in the development of the cleanup standards (**Figure 10** and **Figure 11**).

ENVIRON developed site-specific RRS for the purpose of identifying appropriate cleanup standards at the site. In accordance with EPD guidance (EPD, 2009), default criteria for the Type 3 RRS were identified. For the Type 4 RRS, exposure factor values were obtained from either state guidance (EPD, 2009) federal guidance (USEPA, 2002), or professional judgment.

6.1 Exposure Factors

A summary of the exposure factors used to develop the RRS for each of the receptors is discussed in the following subsections.

6.1.1 Commercial/Industrial Worker

Commercial/industrial workers were assumed to have a body weight of 70 kilograms (kg), ingest 50 milligrams per day (mg/day) of soil over the course of 250 days per year for 25 years (EPD, 2009), and have an inhalation rate of 20 cubic meters per day (m^3/day).

6.1.2 Utility Worker

Future utility workers were assumed to have a body weight of 70 kg, ingest 330 mg/day of soil (USEPA, 2002) over the course of 5 days (professional judgment) per year for 25 years (EPD, 2009), and have an inhalation rate of 20 m^3/day (EPD, 2009).

6.1.3 Construction Worker

Future construction workers were assumed to have a body weight of 70 kg, ingest 330 mg/day of soil (USEPA, 2002) over the course of 65 days (i.e., 3 months; professional judgment) per year for 1 year, and have an inhalation rate of 20 m^3/day (EPD, 2009).

6.2 Surface Soil

Based on the conceptual site model for current and future land use, commercial/industrial, utility, and construction workers may be exposed to surface soil at the site. Consequently, the cleanup standards for surface soil are the lowest of the Type 4 RRS developed for each of these three receptors. The surface soil data and a comparison of these data to the Type 4 RRS are presented in **Table 6** (the calculations used to derive the RRS are provided in **Appendix E**) and indicates that arsenic and lead are the only constituents with concentrations that exceed the RRS, as follows:

- Arsenic was detected in 11 locations in the eastern portion of the site (D-2-SW-E, SB-8, SB-50, SB-52, SB-55, A-SB-1, B-SB-18, B-SB-20, B-SB-27, D-SB-2, and D-SB-8) at concentrations that exceed the cleanup standard of 38 milligrams per kilogram (mg/kg). The greatest concentration detected (230 mg/kg) was identified in D-2-SW-3.
- Lead was detected in one location (SB-55) at a concentration that exceeds the cleanup standard (1,500 mg versus a cleanup standard of 930 mg/kg).

The locations of surface soil exceedances of the RRS are illustrated in **Figure 13**. As a result of these exceedances, a 95percent Upper Confidence Limit (UCL) was calculated using USEPA's ProUCL software (USEPA, 2012) to estimate a more representative (and, therefore, appropriate) exposure point concentration. The UCLs for arsenic (31.1 mg/kg) and lead (317.6 mg/kg) do not exceed the respective RRS for surface soil. The UCL worksheets are provided in **Appendix E**.

6.3 Subsurface Soil

Based on the conceptual site model for current and future land use, utility and construction workers may be exposed to subsurface soil at the site. Consequently, the cleanup standards for subsurface soil are the lesser of the Type 4 RRS for these two receptors. The subsurface soil data and a comparison of these data to the Type 4 RRS are presented in **Table 7** (the calculations used to derive the RRS are provided in **Appendix E**). This comparison indicates that arsenic and lead are the only constituents with concentrations that exceed the RRS, as follows:

- Arsenic was detected in samples from four locations in proximity to each other (SB-28 at 3 to 5 ft bgs, Station 12+00 at 6 to 8 ft bgs, B-SB-48 DUP at 2 to 5 ft bgs, and B-SB-53 DUP at 2 to 5 ft bgs) at concentrations that exceed the RRS of 360 mg/kg. The greatest concentration detected (850 mg/kg) was identified in SB-28 at 3 to 5 feet bgs.
- Lead was detected in four samples from three locations in proximity to each other (SB-37 at 3 to 5 ft bgs, B-SB-48 at 2 to 5 ft bgs, B-SB-48 DUP at 2 to 5 ft bgs, and B-SB-53 DUP at 2 to 5 ft bgs) at concentrations that exceed the RRS of 4,800 mg/kg. The greatest concentration detected (17,000 mg/kg) was identified in B-SB-48 at 2 to 5 feet bgs.

The locations of subsurface soil exceedances of the RRS are illustrated in **Figure 14**. Similar to the surface soil, UCLs were calculated to estimate more representative exposure point concentration. The UCLs for arsenic (92.67 mg/kg) and lead (1261 mg/kg) do not exceed the respective RRS for subsurface soil. The UCL worksheets are provided in **Appendix E**.

6.4 Vapor Intrusion

Based on a comparison of the maximum detected and reasonable maximum exposure (RME) concentrations of VOCs in soil and groundwater with vapor intrusion criteria calculated in **Appendix C**, two locations (GP-07-04 and GP-07-06) exist at the site that could result in unacceptable risks associated with vapor intrusion exposures (**Figure 15**). However, because these locations are not under or in immediate proximity to current site structures at which workers might be exposed to indoor air (i.e., the warehouse to the north of Tanks 77 and 78), cleanup standards were not derived for the vapor intrusion pathway.

7 Proposed Corrective Action

Based on current site conditions, the exposure pathways discussed in Section 5, the cleanup standards presented in Section 6, and the comparison of site data to the cleanup standards, the following corrective actions are proposed for the site:

- **Soil:** Although arsenic and lead were detected in several locations at concentrations exceeding the Type 4 RRS in soil, the 95 percent UCLs for these constituents in both the surface soil and the subsurface soil were less than the Type 4 RRS. Therefore, corrective action for the soil at the site is not warranted.
- **Groundwater:** There is no direct exposure to groundwater via ingestion or inhalation at or within 1,000 feet of the site (also, the maximum concentrations that are estimated to discharge to the Savannah River are significantly less than the Georgia ISWQS [as described in the following bullet]). As such, corrective action for groundwater at the site is not warranted. However, for the purpose of identifying and tracking potential future changes related to the groundwater at the site, annual monitoring for 7 shallow wells (MW-11R, MW-

12, MW-25, MW-30, MW-35, TW-25, and TW-29) and 3 deep wells (MW-9D, MW-12D, and MW-36D) is proposed for 2 years after the site is accepted into the VRP. The results of these monitoring events will be included in the Annual Status Reports for the site.

- **Surface Water:** Because current site conditions do not indicate the presence of VOCs and metals in the Savannah River, and the predicted concentrations of these constituents in the river that might result from groundwater discharge are significantly less than the available and appropriate ecological criteria (including the Georgia ISWQS), corrective action related to surface water is not warranted.
- **Vapor Intrusion:** Based on current site conditions, corrective action for vapor intrusion is not required. However, prior to future development of habitable structures at the site, location-specific vapor intrusion risks will be assessed and mitigation measures, if necessary, will be implemented prior to or during construction.

In addition to the proposed annual monitoring of groundwater, an environmental covenant will be executed on the site in conformance with O.C.G.A. 44-61-1, et seq., the “Georgia Uniform Environmental Covenants Act.” This covenant will require that the land use of the site remains industrial, no drinking water wells will be installed on the site, and any future construction plans for a building on the site will be evaluated for vapor intrusion.

8 Project Schedule

The proposed schedule for continuing activities at the site is presented in **Appendix F**. An updated CSM (if indicated) and the required cost estimate associated with the site will be submitted within 30 months of acceptance into the VRP, and a final Compliance Status Report will be submitted within 60 months of acceptance into the VRP.

9 References

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Tables

**Table 1 - Groundwater Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Well ID	TOC Elevation (feet AMSL)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
MW-1	10.80	8/11/2008	6.09	4.71
		8/31/2009	3.91	6.89
	9.64	8/30/2010	4.50	5.14
MW-3	11.64	8/31/2009	7.03	4.61
	10.35	8/30/2010	7.52	2.83
MW-6R	11.41	8/11/2008	9.35	2.06
		8/31/2009	8.03	3.38
	11.41	8/31/2010	8.62	2.79
MW-8	13.34	8/31/2009	9.78	3.56
	12.17	8/31/2010	9.88	2.29
MW-9D	13.36	8/11/2008	13.48	-0.12
		8/31/2009	9.31	4.05
	11.97	9/1/2010	10.20	1.77
MW-11R	12.78	8/31/2009	11.52	1.26
	11.64	9/1/2010	9.92	1.72
MW-12R	11.80	8/31/2010	9.95	1.85
MW-12D	12.33	8/31/2009	12.52	-0.19
	12.33	8/30/2010	9.98	2.35
MW-16	12.32	8/31/2009	10.69	1.63
	11.08	9/1/2010	9.38	1.70
MW-18	13.82	8/31/2009	12.15	1.67
	12.64	9/1/2010	11.65	0.99
MW-19	13.66	8/31/2009	12.73	0.93
	12.53	9/1/2010	11.52	1.01
MW-20	12.15	8/31/2009	7.98	4.17
		8/31/2010	8.61	3.54
MW-21	14.05	8/31/2009	7.72	6.33
	12.27	9/1/2010	9.56	2.71
MW-22	16.68	8/31/2009	12.37	4.31
	14.86	9/1/2010	13.50	1.36
MW-23	17.17	8/31/2009	13.12	4.05
	15.39	9/1/2010	13.99	1.40
MW-24	14.44	8/31/2009	10.90	3.54
	12.71	9/1/2010	11.55	1.16
MW-25	12.89	8/31/2009	9.29	3.60
	11.21	9/2/2010	10.63	0.58
MW-26	12.90	8/31/2009	9.25	3.65
	11.26	9/2/2010	11.05	0.21
MW-27	10.81	8/31/2009	2.45	8.36
	9.10	9/1/2010	3.01	6.09
MW-28	14.95	8/31/2009	10.71	4.24
	13.08	9/1/2010	12.02	1.06
MW-29	11.93	8/11/2008	11.45	0.48
		8/31/2009	11.31	0.62
	11.93	9/1/2010	10.66	1.27
MW-30	12.77	8/11/2008	11.47	1.30
		8/31/2009	10.32	2.45
	12.77	8/31/2010	10.98	1.79

**Table 1 - Groundwater Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Well ID	TOC Elevation (feet AMSL)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
MW-31	13.30	8/11/2008	11.68	1.62
		8/31/2009	10.99	2.31
	13.30	8/31/2010	10.40	2.90
MW-32	10.42	8/11/2008	9.33	1.09
		8/31/2009	6.99	3.43
	10.42	9/1/2010	8.83	1.59
MW-33	12.02	8/11/2008	9.66	2.36
		8/31/2009	7.39	4.63
	12.02	8/31/2010	8.88	3.14
MW-34	11.23	8/11/2008	8.86	2.37
	11.23	8/31/2010	7.95	3.28
MW-35	11.40	8/11/2008	9.28	2.12
		8/31/2009	7.31	4.09
	11.40	8/31/2010	8.98	2.42
MW-36D	11.54	8/11/2008	9.35	2.19
		8/31/2009	8.00	3.54
	11.54	8/31/2010	8.75	2.79
TW-9	12.04	8/11/2008	10.56	1.48
		8/31/2009	9.78	2.26
		8/30/2010	9.71	2.33
TW-12	12.55	8/11/2008	11.26	1.29
		8/31/2009	10.68	1.87
		9/1/2010	10.82	1.73
TW-13	14.15	8/11/2008	12.60	1.55
		8/31/2009	11.91	2.24
		8/31/2010	12.32	1.83
TW-25	11.30	8/31/2009	8.13	3.17
		8/31/2010	8.78	2.52
TW-27	12.22	8/31/2009	7.69	4.53
		8/31/2010	9.57	2.65
TW-29	11.80	8/31/2009	7.38	4.42
		8/31/2010	9.12	2.68

Notes:

AMSL - Above Mean Sea Level

TOC - Top of Casing

BTOC - Below TOC

**Table 2 - Delineation Criteria for Soil and Groundwater
Colonial Terminals, Plant #2
Savannah, Georgia**

Detected Regulated Substance	Groundwater		Soil		
	Type 1 RRS (mg/L)	Source of Type 1 Standard	Background ⁽¹⁾ (mg/kg)	Type 1 RRS (mg/kg)	Source of Type 1 Standard
1,1-Dichloroethene	0.007	A-III	NA	0.7	T1 GWx100
cis-1,2-Dichloroethene	0.07	A-III	NA	7	T1 GWx100
trans-1,2-Dichloroethene	0.1	A-III	NA	10	T1 GWx100
Methylene Chloride	0.005	A-III	NA	0.5	T1 GWx100
Tetrachloroethene	0.005	A-III	NA	0.5	T1 GWx100
Trichloroethene	0.005	A-III	NA	0.5	T1 GWx100
Vinyl Chloride	0.002	A-III	NA	0.2	T1 GWx100
2,4-Dinitrotoluene	0.01	DL	NA	1	T1 GWx100
Antimony	0.06	DL	NA	4	A-III
Arsenic	0.01	A-III	12.86	20	A-III
Barium	2	A-III	674.1	1000	A-III
Beryllium	0.004	A-III	NA	2	A-III
Cadmium	0.005	A-III	NA	2	A-III
Chromium (total)	0.1	A-III	100	100	A-III
Chromium III	0.1	A-III	100	100	A-III
Chromium VI	0.1	A-III	100	100	A-III
Copper	1.3	A-III	46.7	100	A-III
Lead	0.015	A-III	30	75	A-III
Mercury	0.002	A-III	0.395	0.5	A-III
Nickel	0.1	A-III	24	50	A-III
Silver	0.1	A-III	NA	2	A-III
Thallium	0	DL	NA	2	A-III
Zinc	2	A-III	67	100	A-III

Notes:

(1) VRP Frequently Asked Questions (Georgia EPD, Revised Jan 2012)

A-III -- Appendix III Table 2 (16 metals).

DL -- Detection Limit

T1 GWx100 -- Appendix III Table 1 times 100.

mg/L - Milligrams per liter

mg/kg - Milligrams per kilogram

NA - Not Available

Table 3 - Summary of Soil Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units	1,1-DCE mg/kg	cis-1,2-DCE mg/kg	MeCl mg/kg	PCE mg/kg	trans-1,2-DCE mg/kg	TCE mg/kg	Vinyl Chloride mg/kg	Arsenic mg/kg	Lead mg/kg	Antimony mg/kg	Barium mg/kg	Beryllium mg/kg
1020SW	11/6/2007	0	5	ft bgs	--	--	--	--	--	--	--	96	520	--	--	--
1021SW	11/6/2007	0	5	ft bgs	--	--	--	--	--	--	--	100	1500	--	--	--
1022W-R	12/13/2007	2	5	ft bgs	--	--	--	--	--	--	--	50	630	--	--	--
1042-W	11/27/2007	0	2	ft bgs	--	--	--	--	--	--	--	22	230	--	--	--
1054W	12/11/2007	0	2	ft bgs	--	--	--	--	--	--	--	34	350	--	--	--
1058W-S-R	12/12/2007	0	2	ft bgs	--	--	--	--	--	--	--	9	56	--	--	--
1065W	12/11/2007	0	2	ft bgs	--	--	--	--	--	--	--	19	160	--	--	--
1066W	10/25/2007	0	2	ft bgs	--	--	--	--	--	--	--	2.3	51	--	--	--
1072-W	11/27/2007	0	2	ft bgs	--	--	--	--	--	--	--	6.2	57	--	--	--
1079W	10/29/2007	0	2	ft bgs	--	--	--	--	--	--	--	9.3	82	--	--	--
1081W	10/25/2007	0	2	ft bgs	--	--	--	--	--	--	--	23	180	--	--	--
1086W-R	11/29/2007	0	2	ft bgs	--	--	--	--	--	--	--	25	120	--	--	--
1095W	10/30/2007	0	2	ft bgs	--	--	--	--	--	--	--	15	140	--	--	--
A1-Floor	11/16/2007	6	6	ft bgs	--	--	--	--	--	--	--	100	82	--	--	--
A1-W-N (R)	11/28/2007	0	2	ft bgs	--	--	--	--	--	--	--	4.7	31	--	--	--
A2-Floor	11/16/2007	8	8	ft bgs	--	--	--	--	--	--	--	85	41	--	--	--
A3-Floor	11/19/2007	5	5	ft bgs	--	--	--	--	--	--	--	120	550	--	--	--
A4-Floor	11/20/2007	2	2	ft bgs	--	--	--	--	--	--	--	69	1000	--	--	--
A4-Wall South	11/19/2007	0	2	ft bgs	--	--	--	--	--	--	--	7	560	--	--	--
A5-Floor	11/20/2007	5	5	ft bgs	--	--	--	--	--	--	--	280	670	--	--	--
A5-W-S	11/27/2007	0	2	ft bgs	--	--	--	--	--	--	--	25	430	--	--	--
Area D Bottom-Center	11/9/2010	2	5	ft bgs	--	--	--	--	--	--	--	75.2	69	--	--	--
Area D Bottom-NE	11/9/2010	2	5	ft bgs	--	--	--	--	--	--	--	31.4	72.9	--	--	--
Area D Bottom-NW	11/9/2010	2	5	ft bgs	--	--	--	--	--	--	--	65.6	60	--	--	--
Area D Bottom-SE	11/9/2010	2	5	ft bgs	--	--	--	--	--	--	--	32	70.4	--	--	--
Area D Bottom-SW	11/9/2010	2	5	ft bgs	--	--	--	--	--	--	--	67.9	55.6	--	--	--
Area D SW-East	11/9/2010	0	2	ft bgs	--	--	--	--	--	--	--	2.14	5.64	--	--	--
Area D SW-North	11/11/2010	0	2	ft bgs	--	--	--	--	--	--	--	3.42	38.5	--	--	--
Area D SW-South	11/9/2010	0	2	ft bgs	--	--	--	--	--	--	--	< 2.12	3.2	--	--	--
Area D SW-West	11/9/2010	0	2	ft bgs	--	--	--	--	--	--	--	< 9.43	< 4.71	--	--	--
B2-SUP-WS1	12/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	11	220	--	--	--
B2-SUP-WS2	12/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	7.9	55	--	--	--
B2-SUP-WS3	12/5/2007	0	2	ft bgs	--	--	--	--	--	--	--	18	170	--	--	--
B2-SUP-WS4	12/5/2007	0	2	ft bgs	--	--	--	--	--	--	--	23	330	--	--	--
B2-SUP-WS5-R	12/12/2007	0	2	ft bgs	--	--	--	--	--	--	--	17	130	--	--	--
B2-SUP-WW	12/5/2007	0	2	ft bgs	--	--	--	--	--	--	--	31	310	--	--	--
B3-SUP-WS	12/5/2007	0	2	ft bgs	--	--	--	--	--	--	--	5.9	200	--	--	--
B3-SUP-WW	12/5/2007	0	2	ft bgs	--	--	--	--	--	--	--	8.4	100	--	--	--
C-Floor	11/17/2007	5.5	5.5	ft bgs	--	--	--	--	--	--	--	55	250	--	--	--
C-W-E	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	7.1	98	--	--	--
C-W-N	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	42	420	--	--	--
C-W-S	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	120	1300	--	--	--
C-W-W (R)	12/12/2007	2	5	ft bgs	--	--	--	--	--	--	--	20	13	--	--	--

Table 3 - Summary of Soil Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units	1,1-DCE mg/kg	cis-1,2-DCE mg/kg	MeCl mg/kg	PCE mg/kg	trans-1,2-DCE mg/kg	TCE mg/kg	Vinyl Chloride mg/kg	Arsenic mg/kg	Lead mg/kg	Antimony mg/kg	Barium mg/kg	Beryllium mg/kg
D-1-Floor	11/2/2007	2.5	2.5	ft bgs	--	--	--	--	--	--	--	94	670	--	--	--
D-1-Floor-2	11/3/2007	2.5	2.5	ft bgs	--	--	--	--	--	--	--	100	810	--	--	--
D-1-Floor-3	11/3/2007	2	2	ft bgs	--	--	--	--	--	--	--	8.1	14	--	--	--
D-2-Floor	11/4/2007	2	2	ft bgs	--	--	--	--	--	--	--	92	95	--	--	--
D2R-W-E	11/17/2007	0	2	ft bgs	--	--	--	--	--	--	--	18	160	--	--	--
D-2-SW-E	11/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	230	110	--	--	--
D-2-SW-S	11/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	13	140	--	--	--
D-3-Floor	11/4/2007	2	2	ft bgs	--	--	--	--	--	--	--	56	280	--	--	--
D-3-SW-N	11/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	22	180	--	--	--
D-3-SW-S	11/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	16	170	--	--	--
D-3-SW-W	11/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	6	92	--	--	--
D-Berm-2	11/3/2007	0	2	ft bgs	--	--	--	--	--	--	--	25	330	--	--	--
D-Berm-W-S	11/17/2007	0	2	ft bgs	--	--	--	--	--	--	--	31	300	--	--	--
D-HA-2	6/16/2010	0	2	ft bgs	--	--	--	--	--	--	--	17.4	107	--	--	--
D-HA-3	6/16/2010	0	2	ft bgs	--	--	--	--	--	--	--	6.7	52.1	--	--	--
E-Floor	11/17/2007	5.5	5.5	ft bgs	--	--	--	--	--	--	--	18	260	--	--	--
E-W-E	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	4.3	10	--	--	--
E-W-N	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	65	1400	--	--	--
E-W-S	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	18	280	--	--	--
E-W-W	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	14	210	--	--	--
F SUP NW	11/9/2007	0	2	ft bgs	--	--	--	--	--	--	--	24	410	--	--	--
F SUP SW	11/9/2007	0	2	ft bgs	--	--	--	--	--	--	--	13	150	--	--	--
F1-Floor	12/6/2007	2	2	ft bgs	--	--	--	--	--	--	--	31	670	--	--	--
F2-Floor	12/6/2007	2	2	ft bgs	--	--	--	--	--	--	--	38	560	--	--	--
F3-Floor 1	12/6/2007	5	5	ft bgs	--	--	--	--	--	--	--	62	21	--	--	--
F3-Floor 2	12/6/2007	6	6	ft bgs	--	--	--	--	--	--	--	7.3	17	--	--	--
F3-W-E	12/6/2007	2	5	ft bgs	--	--	--	--	--	--	--	73	1000	--	--	--
F4-Floor	12/6/2007	8	8	ft bgs	--	--	--	--	--	--	--	5.6	11	--	--	--
F4-W-E	12/6/2007	5	8	ft bgs	--	--	--	--	--	--	--	21	30	--	--	--
F5-Floor	12/17/2007	8	8	ft bgs	--	--	--	--	--	--	--	9.7	14	--	--	--
F5-Floor 3	12/17/2007	5	5	ft bgs	--	--	--	--	--	--	--	3.9	14	--	--	--
F5-Floor-2	12/14/2007	5	5	ft bgs	--	--	--	--	--	--	--	6.2	82	--	--	--
F5-W-S	12/19/2007	0	2	ft bgs	--	--	--	--	--	--	--	6.5	74	--	--	--
F5-W-S	12/19/2007	2	5	ft bgs	--	--	--	--	--	--	--	74	1000	--	--	--
F5-W-S	12/19/2007	5	8	ft bgs	--	--	--	--	--	--	--	8.3	90	--	--	--
F6 Floor 1	12/19/2007	3	3	ft bgs	--	--	--	--	--	--	--	46	990	--	--	--
F6 Floor 2	12/19/2007	2	2	ft bgs	--	--	--	--	--	--	--	33	370	--	--	--
F6-W-W	12/19/2007	0	2	ft bgs	--	--	--	--	--	--	--	30	240	--	--	--
F-Floor	11/6/2007	5	5	ft bgs	--	--	--	--	--	--	--	31	690	--	--	--
G2NE	10/29/2007	0	3	ft bgs	--	--	--	--	--	--	--	96	2100	--	--	--
G4 - Floor	11/6/2007	2	2	ft bgs	--	--	--	--	--	--	--	27	64	--	--	--
G4-W-S	11/15/2007	0	2	ft bgs	--	--	--	--	--	--	--	24	370	--	--	--
G5-Floor	11/15/2007	5	5	ft bgs	--	--	--	--	--	--	--	56	110	--	--	--

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Colonial Terminals, Plant #2
Savannah, Georgia**

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units	1,1-DCE mg/kg	cis-1,2-DCE mg/kg	MeCl mg/kg	PCE mg/kg	trans-1,2-DCE mg/kg	TCE mg/kg	Vinyl Chloride mg/kg	Arsenic mg/kg	Lead mg/kg	Antimony mg/kg	Barium mg/kg	Beryllium mg/kg
G5-W-E (R)	11/28/2007	2	5	ft bgs	--	--	--	--	--	--	--	18	77	--	--	--
G5-W-N	11/15/2007	2	5	ft bgs	--	--	--	--	--	--	--	43	25	--	--	--
G5-W-S	11/15/2007	2	5	ft bgs	--	--	--	--	--	--	--	34	76	--	--	--
G-Floor	10/30/2007	3	3	ft bgs	--	--	--	--	--	--	--	96	1000	--	--	--
G-N2-Floor	11/1/2007	3	3	ft bgs	--	--	--	--	--	--	--	43	1300	--	--	--
G-N-Floor	10/31/2007	3	3	ft bgs	--	--	--	--	--	--	--	100	1400	--	--	--
G-NW-SW	11/6/2007	0	2	ft bgs	--	--	--	--	--	--	--	38	640	--	--	--
GP-01-05	8/17/2005	15	20	ft bgs	< 0.1	0.461	NA	4.18	0.013	0.434	0.06	--	--	--	--	--
GP-01-05	8/17/2005	25	30	ft bgs	0.006	0.089	NA	0.265	< 0.001	0.07	0.003	--	--	--	--	--
GP-02-05	8/17/2005	10	15	ft bgs	< 0.001	0.001	NA	0.001	< 0.001	0.001	< 0.001	--	--	--	--	--
GP-02-05	8/17/2005	20	25	ft bgs	0.052	0.126	NA	0.143	0.006	0.035	0.033	--	--	--	--	--
GP-03-05	8/17/2005	15	20	ft bgs	0.02	0.009	NA	0.323	< 0.001	0.11	< 0.001	--	--	--	--	--
GP-03-05	8/17/2005	20	25	ft bgs	0.011	0.005	NA	0.656	< 0.001	0.057	< 0.001	--	--	--	--	--
GP-04-05	8/17/2005	10	15	ft bgs	0.096	0.59	NA	1.6	0.007	0.313	0.065	--	--	--	--	--
GP-04-05	8/17/2005	15	20	ft bgs	0.035	0.315	NA	4.87	0.002	0.234	0.023	--	--	--	--	--
GP-05-05	8/18/2005	10	15	ft bgs	0.113	0.948	NA	7.57	0.01	0.729	0.055	--	--	--	--	--
GP-05-05	8/18/2005	15	20	ft bgs	0.014	0.254	NA	0.707	0.002	0.214	0.014	--	--	--	--	--
GP-06-05	8/18/2005	10	15	ft bgs	0.116	1.22	NA	3.81	0.01	0.895	0.014	--	--	--	--	--
GP-06-05	8/18/2005	15	20	ft bgs	0.036	0.715	NA	3.06	< 0.002	0.546	0.006	--	--	--	--	--
GP-07-01	4/23/2007	4	5	ft bgs	< 0.25	< 0.25	< 0.25	2.7	< 0.25	0.27	< 0.25	--	--	--	--	--
GP-07-02	4/23/2007	2	3	ft bgs	< 0.25	< 0.25	< 0.25	8.3	< 0.25	0.47	< 0.25	--	--	--	--	--
GP-07-03	4/24/2007	3	4	ft bgs	< 0.0053	< 0.0053	0.011	< 0.0053	< 0.0053	< 0.0053	< 0.0053	--	--	--	--	--
GP-07-04	4/24/2007	3	4	ft bgs	< 2.2	< 2.2	< 2.2	400	< 2.2	19	< 2.2	--	--	--	--	--
GP-07-05	4/24/2007	3	4	ft bgs	< 0.21	< 0.21	< 0.211	4.9	< 0.21	< 0.21	< 0.21	--	--	--	--	--
GP-07-06	4/25/2007	3	4	ft bgs	< 0.35	0.66	< 0.35	0.35	< 0.35	6.3	< 0.35	--	--	--	--	--
GP-07-07	4/26/2007	2	3	ft bgs	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	--	--	--	--	--
GP-07-08	8/15/2007	3	4	ft bgs	< 0.0054	< 0.0054	< 0.011	< 0.0054	< 0.0054	< 0.0054	< 0.0054	--	--	--	--	--
GP-07-09	8/15/2007	3	4	ft bgs	< 0.0051	< 0.0051	< 0.01	< 0.0051	< 0.0051	< 0.0051	< 0.0051	--	--	--	--	--
GP-07-10	8/15/2007	3	4	ft bgs	< 0.0047	0.037	< 0.0094	0.33	< 0.0047	0.018	< 0.0047	--	--	--	--	--
GP-07-11	8/15/2007	3	4	ft bgs	< 0.0041	0.022	< 0.0082	0.22	< 0.0041	0.0058	< 0.0041	--	--	--	--	--
GP-07-12	8/15/2007	3	4	ft bgs	< 0.0053	< 0.0053	< 0.011	0.031	< 0.0053	< 0.0053	< 0.0053	--	--	--	--	--
GP-07-13	8/15/2007	2	3	ft bgs	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	0.38	< 0.005	--	--	--	--	--
GP-07-14	8/15/2007	2	3	ft bgs	< 0.0074	< 0.0074	< 0.015	0.034	< 0.0074	< 0.0074	< 0.0074	--	--	--	--	--
GP-07-15	8/15/2007	2	3	ft bgs	< 0.0046	< 0.0046	< 0.0092	< 0.0046	< 0.0046	< 0.0046	< 0.0046	--	--	--	--	--
GP-07-16	8/15/2007	3	4	ft bgs	< 0.0042	< 0.0042	< 0.0084	0.27	< 0.0042	0.0091	< 0.0042	--	--	--	--	--
GP-07-17	8/16/2007	3	4	ft bgs	< 0.18	< 0.18	< 0.9	1.8	< 0.18	< 0.18	< 0.18	--	--	--	--	--
GP-07-18	8/16/2007	3	4	ft bgs	< 0.0043	0.0092	< 0.0086	< 0.0043	< 0.0043	< 0.0043	0.0086	--	--	--	--	--
GP-07-19	8/16/2007	3	4	ft bgs	< 0.19	< 0.19	< 0.95	3.1	< 0.19	0.57	< 0.19	--	--	--	--	--
GP-07-20	8/16/2007	2	3	ft bgs	< 0.18	< 0.18	< 0.9	5	< 0.18	0.92	< 0.18	--	--	--	--	--
GP-07-21	8/16/2007	3	4	ft bgs	< 0.0043	< 0.0043	< 0.0086	< 0.0043	< 0.0043	< 0.0043	< 0.0043	--	--	--	--	--
GP-07-22	8/16/2007	3	4	ft bgs	< 0.19	< 0.19	< 0.95	1.5	< 0.19	< 0.19	< 0.19	--	--	--	--	--
G-W-N	12/11/2007	0	2	ft bgs	--	--	--	--	--	--	--	29	540	--	--	--
HA-07-02	10/22/2007	3	4	ft bgs	< 0.0073	< 0.0073	< 0.015	< 0.0073	< 0.0073	< 0.0073	< 0.0073	--	--	--	--	--

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HA-07-04	10/22/2007	3	4	ft bgs	< 0.0066	< 0.0066	< 0.013	< 0.0066	< 0.0066	< 0.0066	< 0.0066	--	--	--	--	--
HA-07-06	10/23/2007	3	4	ft bgs	< 0.0049	0.0082	< 0.0098	0.066	< 0.0049	0.016	< 0.0049	--	--	--	--	--
HA-07-08	11/4/2007	4	6	ft bgs	< 0.0037	0.005	< 0.0074	0.011	< 0.0037	0.018	< 0.0037	--	--	--	--	--
I16	12/17/2007	0	2	ft bgs	--	--	--	--	--	--	--	37	330	--	--	--
I1-Floor	11/12/2007	2	2	ft bgs	--	--	--	--	--	--	--	5.7	45	--	--	--
I1-SW	11/12/2007	0	2	ft bgs	--	--	--	--	--	--	--	15	150	--	--	--
I2-Floor	11/12/2007	2	2	ft bgs	--	--	--	--	--	--	--	25	220	--	--	--
I3-Floor	11/13/2007	2	2	ft bgs	--	--	--	--	--	--	--	24	210	--	--	--
I3-W-W	11/13/2007	0	2	ft bgs	--	--	--	--	--	--	--	23	220	--	--	--
I4-Floor	11/13/2007	5	5	ft bgs	--	--	--	--	--	--	--	200	700	--	--	--
I4-W-N	11/13/2007	2	5	ft bgs	--	--	--	--	--	--	--	33	350	--	--	--
I4-W-S	11/27/2007	0	2	ft bgs	--	--	--	--	--	--	--	4.8	57	--	--	--
I4-W-W	11/13/2007	2	5	ft bgs	--	--	--	--	--	--	--	22	43	--	--	--
I5-Floor	11/13/2007	3	3	ft bgs	--	--	--	--	--	--	--	20	77	--	--	--
I5-W-N (R)	11/28/2007	0	2	ft bgs	--	--	--	--	--	--	--	20	120	--	--	--
I6-Floor	11/13/2007	2	2	ft bgs	--	--	--	--	--	--	--	14	180	--	--	--
I6-W-W	11/13/2007	0	2	ft bgs	--	--	--	--	--	--	--	14	99	--	--	--
I7-Floor	11/14/2007	2	2	ft bgs	--	--	--	--	--	--	--	32	210	--	--	--
I7-W-S	11/14/2007	0	2	ft bgs	--	--	--	--	--	--	--	21	150	--	--	--
I7-W-W	11/14/2007	0	2	ft bgs	--	--	--	--	--	--	--	34	290	--	--	--
I8-Floor	11/28/2007	2	2	ft bgs	--	--	--	--	--	--	--	37	350	--	--	--
I8-W-S	11/28/2007	0	2	ft bgs	--	--	--	--	--	--	--	20	180	--	--	--
I8-W-W	11/28/2007	0	2	ft bgs	--	--	--	--	--	--	--	11	110	--	--	--
I9-Floor	11/28/2007	2	2	ft bgs	--	--	--	--	--	--	--	20	210	--	--	--
I9-W-N	11/28/2007	0	2	ft bgs	--	--	--	--	--	--	--	17	180	--	--	--
I-Floor-1	12/14/2007	8	8	ft bgs	< 0.0051	0.025	< 0.01	0.049	< 0.0051	0.015	< 0.0051	--	--	--	--	--
I VOC-Floor -2	12/14/2007	8	8	ft bgs	< 0.005	0.009	< 0.01	0.036	< 0.005	0.013	< 0.005	--	--	--	--	--
MW-2	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	<3.4	17	--	--	--
MW-18	5/15/2005	2	5	ft bgs	--	--	--	--	--	--	--	52	250	--	--	--
MW-18	5/15/2005	5	8	ft bgs	--	--	--	--	--	--	--	31	8.4	--	--	--
MW-19	5/15/2005	2	4	ft bgs	--	--	--	--	--	--	--	41	320	--	--	--
MW-19	5/15/2005	6	9	ft bgs	--	--	--	--	--	--	--	5	27	--	--	--
SB-1	8/25/1999	0.5	1.5	ft bgs	--	--	0.039	--	--	0.014	--	9	72	29	53	0.4
SB-1	8/25/1999	4.5	6.5	ft bgs	--	--	0.035	--	--	0.11	--	2.4	7.8	< 5.00	33	< 0.300
SB-2	8/25/1999	0.5	1.5	ft bgs	--	--	0.041	--	--	< 0.005	--	28	160	7.1	23	< 0.300
SB-2	8/25/1999	3.5	5.5	ft bgs	--	--	0.032	--	--	< 0.005	--	--	--	--	--	--
SB-2	8/25/1999	3.5	5.5	ft bgs	--	--	32	--	--	< 5.00	--	3.1	12	11	15	< 0.300
SB-3	8/25/1999	3.5	5.5	ft bgs	--	--	0.027	--	--	< 0.005	--	21	92	5	33	< 0.300
SB-4	8/25/1999	1	2	ft bgs	--	--	0.015	--	--	< 0.005	--	11	16	12	45	< 0.300
SB-4	8/25/1999	4	6	ft bgs	--	--	0.016	--	--	< 0.005	--	8.6	11	7	24	< 0.300
SB-4	8/25/1999	6	8	ft bgs	--	--	--	--	--	--	--	3.5	6.9	< 5.00	13	< 0.300
SB-5	8/25/1999	0.5	1.5	ft bgs	--	--	0.047	--	--	< 0.005	--	< 2.00	< 5.00	< 5.00	9.9	< 0.300
SB-5	8/25/1999	3.5	5.5	ft bgs	--	--	0.055	--	--	0.035	--	10	31	22	14	< 0.300

Table 3 - Summary of Soil Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units	1,1-DCE mg/kg	cis-1,2-DCE mg/kg	MeCl mg/kg	PCE mg/kg	trans-1,2-DCE mg/kg	TCE mg/kg	Vinyl Chloride mg/kg	Arsenic mg/kg	Lead mg/kg	Antimony mg/kg	Barium mg/kg	Beryllium mg/kg
SB-6	8/25/1999	1	1.5	ft bgs	--	--	0.045	--	--	0.0074	--	4	60	9	48	< 0.300
SB-6	8/25/1999	3.5	5.5	ft bgs	--	--	0.082	--	--	0.012	--	6.4	67	32	18	< 0.300
SB-7	8/25/1999	0.5	1.5	ft bgs	--	--	< 0.01	--	--	< 0.005	--	2.3	23	< 5.00	7.2	< 0.300
SB-7	8/25/1999	3.5	5.5	ft bgs	--	--	0.048	--	--	< 0.005	--	22	68	9.3	37	< 0.300
SB-8	8/25/1999	0.5	1.5	ft bgs	--	--	0.019	--	--	< 0.005	--	89	230	19	62	< 0.300
SB-8	8/25/1999	3.5	5.5	ft bgs	--	--	0.017	--	--	< 0.005	--	15	19	20	18	< 0.300
SB-9	8/25/1999	0.5	1.5	ft bgs	--	--	0.015	--	--	< 0.005	--	13	430	14	42	< 0.300
SB-9	8/25/1999	3.5	5.5	ft bgs	--	--	0.015	--	--	< 0.005	--	33	410	14	48	< 0.300
SB-20	10/1/2001	0	2	ft bgs	< 0.0069	< 0.0069	< 0.0069	< 0.0069	< 0.0069	< 0.0069	< 0.014	8	160	1.7	--	--
SB-20	10/1/2001	3	5	ft bgs	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	66	3400	12	50	--
SB-20	10/1/2001	6	8	ft bgs	--	--	--	--	--	--	--	2.2	11	< 2.20	13	--
SB-21	10/1/2001	0	2	ft bgs	< 0.0058	< 0.0058	< 0.0058	0.0044 E	< 0.0058	< 0.0058	< 0.012	--	--	--	--	--
SB-21	10/1/2001	3	5	ft bgs	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.013	< 5.70	--	< 1.20	--	--
SB-22	11/15/2001	0	1.5	ft bgs	--	--	--	--	--	--	--	34	390	3.3	120	0.7
SB-23	10/15/2001	0	2	ft bgs	--	--	--	--	--	--	--	< 5.90	36	< 1.00	12	--
SB-26	10/15/2001	0	2	ft bgs	--	--	--	--	--	--	--	15	770	--	63	--
SB-27	10/15/2001	3	5	ft bgs	--	--	--	--	--	--	--	5.7	50	< 1.20	--	--
SB-27	10/15/2001	6	8	ft bgs	--	--	--	--	--	--	--	4.8	--	--	--	--
SB-28	10/15/2001	3	5	ft bgs	--	--	--	--	--	--	--	850	2000	51	88	--
SB-28	10/15/2001	6	8	ft bgs	--	--	--	--	--	--	--	300	150	< 2.10	36	--
SB-29	10/1/2001	0	2	ft bgs	--	--	< 0.0055	--	--	0.02	--	21	--	2.9	--	--
SB-29	10/1/2001	3	5	ft bgs	--	--	< 0.0065	--	--	0.3	--	23	--	< 2.20	--	--
SB-30	10/1/2001	3	5	ft bgs	< 0.0044	0.0034 E	< 0.0044	0.55 E	< 0.0044	0.008	< 0.0087	--	--	< 0.990	--	--
SB-30	10/1/2001	6	8	ft bgs	--	--	--	--	--	--	--	--	--	--	--	--
SB-31	11/15/2001	0	2	ft bgs	--	--	--	--	--	--	--	11	190	1.8	87	--
SB-32	11/15/2001	0	2	ft bgs	--	--	--	--	--	--	--	3.9	410	< 1.10	--	--
SB-32	11/15/2001	3	5	ft bgs	--	--	--	--	--	--	--	< 3.90	9.2	< 1.10	12	--
SB-33	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	99	--	--	--	--
SB-34	9/15/2002	0	2	ft bgs	--	--	--	--	--	--	--	6.9	68	< 2.50	--	--
SB-37	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	140	8600	--	--	--
SB-38	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	65	960	--	--	--
SB-38	9/15/2002	5	6.5	ft bgs	--	--	--	--	--	--	--	220	3700	--	--	--
SB-40	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	48	1100	--	--	--
SB-41	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	24	1700	--	--	--
SB-41	9/15/2002	5	7	ft bgs	--	--	--	--	--	--	--	67	27	--	--	--
SB-42	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	20	15	--	--	--
SB-42	9/15/2002	5.5	7	ft bgs	--	--	--	--	--	--	--	11	8.6	--	--	--
SB-43	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	5.4	--	--	--	--
SB-43	9/15/2002	6	8	ft bgs	--	--	--	--	--	--	--	4.9	--	--	--	--
SB-44	9/15/2002	6	8	ft bgs	--	--	--	--	--	--	--	310	--	--	--	--
SB-45	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	9.6	140	--	--	--
SB-45	9/15/2002	6	8	ft bgs	--	--	--	--	--	--	--	< 0.970	2.8	--	--	--
SB-46	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	2.4	14	--	--	--

Table 3 - Summary of Soil Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units	1,1-DCE mg/kg	cis-1,2-DCE mg/kg	MeCl mg/kg	PCE mg/kg	trans-1,2-DCE mg/kg	TCE mg/kg	Vinyl Chloride mg/kg	Arsenic mg/kg	Lead mg/kg	Antimony mg/kg	Barium mg/kg	Beryllium mg/kg
SB-46	9/15/2002	6	8	ft bgs	--	--	--	--	--	--	--	7.2	8	--	--	--
SB-47	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	34	--	--	--
SB-47	9/15/2002	6	8	ft bgs	--	--	--	--	--	--	--	--	6.1	--	--	--
SB-48	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	21	230	--	--	--
SB-48	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	6.8	95	--	--	--
SB-49	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	37	18	--	--	--
SB-50	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	66	630	--	--	--
SB-50	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	5.7	44	--	--	--
SB-52	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	54	840	--	--	--
SB-52	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	12	28	--	--	--
SB-53	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	< 1.00	5.5	--	--	--
SB-53	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	< 1.10	5.1	--	--	--
SB-54	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	4.2	12	--	--	--
SB-54	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	3.8	13	--	--	--
SB-55	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	50	1500	--	--	--
SB-55	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	22	1400	--	--	--
SB-56	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	19	270	--	--	--
SB-56	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	270	3200	--	--	--
SB-57	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	1.4	9	--	--	--
SB-57	9/15/2003	5	7	ft bgs	--	--	--	--	--	--	--	1.1	4.6	--	--	--
SB-58	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	1	3.3	--	--	--
SB-58	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	1.7	5.6	--	--	--
SB-59	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	31	230	--	--	--
SB-59	9/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	1.5	7.5	--	--	--
SB-60	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	75	580	--	--	--
SB-60	9/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	4.8	5.9	--	--	--
SB-61	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	96	95	--	--	--
SB-61	9/15/2003	5.5	7	ft bgs	--	--	--	--	--	--	--	5.9	20	--	--	--
SB-62	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	8.3	180	--	--	--
SB-63	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	< 1.00	2.9	--	--	--
SB-64	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	3.1	8.2	--	--	--
SB-65	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	4	11	--	--	--
SB-66	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	5.4	94	--	--	--
SB-67	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	6.4	53	--	--	--
SB-68	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	7.8	17	--	--	--
SB-68	11/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	7.5	10	--	--	--
SB-69	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	28	620	--	--	--
SB-69	11/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	13	11	--	--	--
SB-70	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	< 3.30	< 2.80	--	--	--
SB-70	11/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	8.8	11	--	--	--
SB-71	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	< 3.70	8.2	--	--	--
SB-72	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	12	5.2	--	--	--
SB-72	11/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	59	18	--	--	--

Table 3 - Summary of Soil Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units	1,1-DCE mg/kg	cis-1,2-DCE mg/kg	MeCl mg/kg	PCE mg/kg	trans-1,2-DCE mg/kg	TCE mg/kg	Vinyl Chloride mg/kg	Arsenic mg/kg	Lead mg/kg	Antimony mg/kg	Barium mg/kg	Beryllium mg/kg
SB-73	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	15	250	--	--	--
SB-74	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	21	19	--	--	--
SB-74	11/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	8.2	16	--	--	--
SL-BF-1	12/11/2007	1	1	ft bgs	--	--	--	--	--	--	--	7.7	50	--	--	--
SL-BF-1	12/11/2007	4	4	ft bgs	--	--	--	--	--	--	--	1.7	9.7	--	--	--
SL-BF-2	12/11/2007	1	1	ft bgs	--	--	--	--	--	--	--	22	200	--	--	--
SL-BF-2	12/11/2007	4	4	ft bgs	--	--	--	--	--	--	--	3.6	14	--	--	--
SL-BF-3	12/11/2007	1	1	ft bgs	--	--	--	--	--	--	--	2.5	25	--	--	--
SL-BF-3	12/11/2007	4	4	ft bgs	--	--	--	--	--	--	--	1.7	5.1	--	--	--
Station 12+00	4/15/2000	6	8	ft bgs	--	--	--	--	--	--	--	619	3390	30.4	11.2	<1.34
Station 13+50	8/15/2000	5.5	8	ft bgs	--	--	--	--	--	--	--	45.6	19	<5.0	--	--
Station 15+00	4/11/2000	6	8	ft bgs	< 0.0045	< 0.0045	< 0.045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	10.3	68.9	<2.94	10.8	<1.59
Station 15+00	4/11/2000	10.5	10.5	ft bgs	< 0.0045	< 0.0045	< 0.045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	--	--	--	--	--
Station 15+00	4/11/2000	13	13	ft bgs	< 0.0048	< 0.0048	< 0.048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	--	--	--	--	--
Station 15+00	4/11/2000	15.5	15.5	ft bgs	< 0.0047	< 0.0047	< 0.047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	--	--	--	--	--
Station 15+00	4/11/2000	18	18	ft bgs	< 0.0045	< 0.0045	< 0.045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	--	--	--	--	--
Station 16+50	8/15/2000	5.5	8	ft bgs	--	--	--	--	--	--	--	<4.99	<4.99	<4.99	--	--
Station 18+00	4/12/2000	6	8	ft bgs	< 0.0042	< 0.0042	< 0.042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	34.9	1200	<4.89	176	<2.19
Station 18+00	4/12/2000	10.5	10.5	ft bgs	< 0.0046	< 0.0046	< 0.046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	--	--	--	--	--
Station 18+00	4/12/2000	13	13	ft bgs	< 0.005	< 0.005	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	--	--	--	--	--
Station 18+00	4/12/2000	15.5	15.5	ft bgs	< 0.0049	< 0.0049	< 0.049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	--	--	--	--	--
Station 19+50	8/15/2000	5.5	8	ft bgs	--	--	--	--	--	--	--	81.5	732	9.83	--	--
Station 21+00	4/15/2000	6	8	ft bgs	--	--	--	--	--	--	--	306	3000	<4.69	38.6	<1.73
TW-10	12/14/2005	5	7	ft bgs	< 0.002	0.005	--	2.11	< 0.002	0.018	< 0.002	--	--	--	--	--
TW-11	12/14/2005	5	7	ft bgs	0.026	0.003	--	0.54	< 0.002	0.011	< 0.002	--	--	--	--	--
TW-12	3/20/2006	5	7	ft bgs	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	--	--	--	--	--
TW-13	3/21/2006	5	7	ft bgs	0.0069	0.11	< 0.0059	0.14	< 0.0059	0.025	< 0.0059	--	--	--	--	--
TW-14	3/21/2006	5	7	ft bgs	< 0.0054	< 0.0054	< 0.054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	--	--	--	--	--
TW-15	3/21/2006	5	7	ft bgs	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	--	--	--	--	--
TW-16	3/21/2006	5	7	ft bgs	< 0.0053	< 0.0053	< 0.0053	0.025	< 0.0053	0.022	< 0.0053	--	--	--	--	--
TW-17	3/21/2006	5	7	ft bgs	< 0.0055	0.018	< 0.0055	0.012	< 0.0055	< 0.0055	< 0.0055	--	--	--	--	--
TW-18	3/21/2006	5	7	ft bgs	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	--	--	--	--	--
TW-19	3/22/2006	5	7	ft bgs	< 0.0049	< 0.0049	< 0.049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	--	--	--	--	--
TW-20	3/22/2006	5	7	ft bgs	3.8	< 0.0051	0.029	0.0071	< 0.0051	0.0054	< 0.0051	--	--	--	--	--
TW-21	3/23/2006	5	7	ft bgs	< 0.0051	0.052	< 0.0051	0.011	< 0.0051	0.064	< 0.0051	--	--	--	--	--
TW-22	3/23/2006	5	7	ft bgs	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	--	--	--	--	--
TW-23	3/23/2006	5	7	ft bgs	< 0.0048	< 0.0048	< 0.0048	0.021	< 0.0048	0.011	< 0.0048	--	--	--	--	--
TW-24	3/23/2006	5	7	ft bgs	< 0.0053	0.053	< 0.0053	0.26	< 0.0053	0.12	< 0.0053	--	--	--	--	--
TW-25	5/25/2006	5	7	ft bgs	< 0.0044	0.0081	< 0.0044	0.052	< 0.0044	< 0.18	< 0.0044	--	--	--	--	--
TW-26	5/25/2006	5	7	ft bgs	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	--	--	--	--	--
TW-27	5/25/2006	5	7	ft bgs	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	--	--	--	--	--
TW-29	4/23/2007	4	5	ft bgs	< 0.2	< 0.2	< 0.2	4.4	< 0.2	0.32	< 0.2	--	--	--	--	--
TW-30	4/24/2007	3	4	ft bgs	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	--	--	--	--	--

Table 3 - Summary of Soil Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units	1,1-DCE mg/kg	cis-1,2-DCE mg/kg	MeCl mg/kg	PCE mg/kg	trans-1,2-DCE mg/kg	TCE mg/kg	Vinyl Chloride mg/kg	Arsenic mg/kg	Lead mg/kg	Antimony mg/kg	Barium mg/kg	Beryllium mg/kg
TW-31	4/24/2007	4	5	ft bgs	< 0.23	0.54	< 0.23	2	< 0.23	0.65	< 0.23	--	--	--	--	--
TW-32	4/24/2007	3	4	ft bgs	< 0.0051	< 0.0051	< 0.0051	0.02	< 0.0051	< 0.0051	< 0.0051	--	--	--	--	--
TW-5	12/14/2005	5	7	ft bgs	< 0.002	< 0.002	--	< 0.002	< 0.002	< 0.002	< 0.002	--	--	--	--	--
TW-6	12/14/2005	5	7	ft bgs	< 0.002	0.002	--	0.004	< 0.002	0.002	< 0.002	--	--	--	--	--
TW-7	12/14/2005	5	7	ft bgs	0.006	0.048	--	0.074	< 0.002	0.027	< 0.002	--	--	--	--	--
TW-8	12/14/2005	5	7	ft bgs	0.008	0.026	--	0.057	< 0.002	0.02	< 0.002	--	--	--	--	--
TW-9	12/14/2005	5	7	ft bgs	0.01	< 0.002	--	0.035	< 0.002	< 0.002	< 0.002	--	--	--	--	--
A-SB-1	11/14/2006	0	2	ft bgs	--	--	--	--	--	--	--	88	390	--	--	--
A-SB-1	11/14/2006	2	5	ft bgs	--	--	--	--	--	--	--	7.7	290	--	--	--
A-SB-5	11/14/2006	0	2	ft bgs	--	--	--	--	--	--	--	37	550	--	--	--
A-SB-5	11/14/2006	2	5	ft bgs	--	--	--	--	--	--	--	36	240	--	--	--
A-SB-6	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	35	600	--	--	--
B-SB-1	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	5.9	74	--	--	--
B-SB-2	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	19	260	--	--	--
B-SB-3	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	23	640	--	--	--
B-SB-3 DUP	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	4.5	14	--	--	--
B-SB-3	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	13	17	--	--	--
B-SB-3 DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	4.5	14	--	--	--
B-SB-8	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	9.3	120	--	--	--
B-SB-8	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	33	17	--	--	--
B-SB-8 DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	8.3	16	--	--	--
B-SB-9	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	37	440	--	--	--
B-SB-10	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	13	140	--	--	--
B-SB-12	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	17	89	--	--	--
B-SB-13	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	29	200	--	--	--
B-SB-13	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	14	150	--	--	--
B-SB-13DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	20	390	--	--	--
B-SB-18	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	64	720	--	--	--
B-SB-18	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	19	200	--	--	--
B-SB-20	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	51	240	--	--	--
B-SB-23	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	80	1,500	--	--	--
B-SB-23DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	95	2,100	--	--	--
B-SB-27	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	48	530	--	--	--
B-SB-28	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	250	1,000	--	--	--
B-SB-28DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	160	750	--	--	--
B-SB-38	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	17	1,300	--	--	--
B-SB-38 DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	110	680	--	--	--
B-SB-42	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	14	150	--	--	--
B-SB-44	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	<3.7	21	--	--	--
B-SB-48	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	260	13,000	--	--	--
B-SB-48 DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	600	17,000	--	--	--
B-SB-52	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	15	700	--	--	--
B-SB-53	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	11	160	--	--	--

Table 3 - Summary of Soil Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units	1,1-DCE mg/kg	cis-1,2-DCE mg/kg	MeCl mg/kg	PCE mg/kg	trans-1,2-DCE mg/kg	TCE mg/kg	Vinyl Chloride mg/kg	Arsenic mg/kg	Lead mg/kg	Antimony mg/kg	Barium mg/kg	Beryllium mg/kg
B-SB-53	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	160	1,200	--	--	--
B-SB-53 DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	690	5,600	--	--	--
C-SB-1	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	32	180	--	--	--
C-SB-1	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	160	94	--	--	--
C-SB-1	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	230	1,800	--	--	--
C-SB-3	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	110	800	--	--	--
C-SB-4	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	7.5	35	--	--	--
C-SB-4	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	130	1,800	--	--	--
C-SB-4	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	18	160	--	--	--
C-SB-5	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	3.9	12	--	--	--
C-SB-5	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	5.1	69	--	--	--
C-SB-5	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	9.7	150	--	--	--
C-SB-6	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	9.5	75	--	--	--
C-SB-6	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	3.6	36	--	--	--
C-SB-6	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	<3.1	35	--	--	--
D-SB-2	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	62	720	--	--	--
D-SB-8	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	76	630	--	--	--
E-SB-1	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	7.3	100	--	--	--
E-SB-1	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	54	660	--	--	--
E-SB-1	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	5.5	29	--	--	--
E-SB-3	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	<3.6	11	--	--	--
E-SB-4	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	27	460	--	--	--
E-SB-4	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	37	540	--	--	--
E-SB-4	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	<3.9	24	--	--	--
F-SB-1	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	26	380	--	--	--
F-SB-1	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	120	1,000	--	--	--
F-SB-7	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	25	230	--	--	--
F-SB-7	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	22	650	--	--	--
F-SB-8	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	20	160	--	--	--
F-SB-8	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	11	310	--	--	--
F-SB-10	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	26	270	--	--	--
F-SB-10	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	81	1,500	--	--	--
F-SB-13	11/14/2006	5	8	ft bgs	--	--	--	--	--	--	--	64	370	--	--	--
F-SB-14	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	46	440	--	--	--
F-SB-15	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	21	440	--	--	--
F-SB-16	11/14/2006	5	8	ft bgs	--	--	--	--	--	--	--	21	100	--	--	--
F-SB-18	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	46	1,100	--	--	--
F-SB-20	11/14/2006	0	2	ft bgs	--	--	--	--	--	--	--	15	230	--	--	--
F-SB-20	11/14/2006	2	5	ft bgs	--	--	--	--	--	--	--	63	840	--	--	--
G-SB-1	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	3.9	17	--	--	--
G-SB-3	11/14/2006	5	8	ft bgs	--	--	--	--	--	--	--	3.8	15	--	--	--
G-SB-4	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	120	2,100	--	--	--
G-SB-5	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	<3.4	10	--	--	--

Table 3 - Summary of Soil Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units	1,1-DCE mg/kg	cis-1,2-DCE mg/kg	MeCl mg/kg	PCE mg/kg	trans-1,2-DCE mg/kg	TCE mg/kg	Vinyl Chloride mg/kg	Arsenic mg/kg	Lead mg/kg	Antimony mg/kg	Barium mg/kg	Beryllium mg/kg
G-SB-5	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	12	15	--	--	--
G-SB-6	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	<3.4	12	--	--	--
G-SB-7	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	62	830	--	--	--
G-SB-8	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	140	460	--	--	--
G-SB-9	11/14/2006	2	5	ft bgs	--	--	--	--	--	--	--	240	340	--	--	--
G-SB-10	11/14/2006	2	5	ft bgs	--	--	--	--	--	--	--	30	34	--	--	--
H-SB-1	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	<3.2	--	--	--	--
H-SB-5	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	3.5	--	--	--	--
H-SB-6	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	15	160	--	--	--
H-SB-7	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	20	250	--	--	--
I-SB-1	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	63.6	12	--	--	--
I-SB-2	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	6	67	--	--	--
I-SB-3	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	16	120	--	--	--
I-SB-3	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	29	260	--	--	--
I-SB-4	10/5/2006	2	4	ft bgs	--	--	--	--	--	--	--	6.2	38	--	--	--
I-SB-5	10/5/2006	2	4	ft bgs	--	--	--	--	--	--	--	25	260	--	--	--
I-SB-8	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	15	660	--	--	--
I-SB-9	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	18	140	--	--	--
I-SB-9	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	4.9	11	--	--	--
I-SB-10	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	14	170	--	--	--
I-SB-10	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	15	42	--	--	--

Notes:

Sample was collected from below the water table

mg/kg -- Milligrams per kilogram (parts per million)

ft bgs -- Feet below ground surface

< Analyte was not detected at the laboratory reporting limit indicated

-- Analyte was not sampled for

**Table 3 - Summary of Soil Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia**

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units	Cadmium mg/kg	Chromium mg/kg	Copper mg/kg	Mercury mg/kg	Nickel mg/kg	Silver mg/kg	Thallium mg/kg	Zinc mg/kg	2,4-Dinitrotoluene mg/kg
1020SW	11/6/2007	0	5	ft bgs	--	--	--	--	--	--	--	--	--
1021SW	11/6/2007	0	5	ft bgs	--	--	--	--	--	--	--	--	--
1022W-R	12/13/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--
1042-W	11/27/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
1054W	12/11/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
1058W-S-R	12/12/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
1065W	12/11/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
1066W	10/25/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
1072-W	11/27/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
1079W	10/29/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
1081W	10/25/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
1086W-R	11/29/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
1095W	10/30/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
A1-Floor	11/16/2007	6	6	ft bgs	--	--	--	--	--	--	--	--	--
A1-W-N (R)	11/28/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
A2-Floor	11/16/2007	8	8	ft bgs	--	--	--	--	--	--	--	--	--
A3-Floor	11/19/2007	5	5	ft bgs	--	--	--	--	--	--	--	--	--
A4-Floor	11/20/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--
A4-Wall South	11/19/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
A5-Floor	11/20/2007	5	5	ft bgs	--	--	--	--	--	--	--	--	--
A5-W-S	11/27/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
Area D Bottom-Center	11/9/2010	2	5	ft bgs	--	--	--	--	--	--	--	--	--
Area D Bottom-NE	11/9/2010	2	5	ft bgs	--	--	--	--	--	--	--	--	--
Area D Bottom-NW	11/9/2010	2	5	ft bgs	--	--	--	--	--	--	--	--	--
Area D Bottom-SE	11/9/2010	2	5	ft bgs	--	--	--	--	--	--	--	--	--
Area D Bottom-SW	11/9/2010	2	5	ft bgs	--	--	--	--	--	--	--	--	--
Area D SW-East	11/9/2010	0	2	ft bgs	--	--	--	--	--	--	--	--	--
Area D SW-North	11/11/2010	0	2	ft bgs	--	--	--	--	--	--	--	--	--
Area D SW-South	11/9/2010	0	2	ft bgs	--	--	--	--	--	--	--	--	--
Area D SW-West	11/9/2010	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B2-SUP-WS1	12/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B2-SUP-WS2	12/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B2-SUP-WS3	12/5/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B2-SUP-WS4	12/5/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B2-SUP-WS5-R	12/12/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B2-SUP-WW	12/5/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B3-SUP-WS	12/5/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B3-SUP-WW	12/5/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
C-Floor	11/17/2007	5.5	5.5	ft bgs	--	--	--	--	--	--	--	--	--
C-W-E	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--
C-W-N	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--
C-W-S	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--
C-W-W (R)	12/12/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--

Table 3 - Summary of Soil Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units	Cadmium mg/kg	Chromium mg/kg	Copper mg/kg	Mercury mg/kg	Nickel mg/kg	Silver mg/kg	Thallium mg/kg	Zinc mg/kg	2,4-Dinitrotoluene mg/kg
D-1-Floor	11/2/2007	2.5	2.5	ft bgs	--	--	--	--	--	--	--	--	--
D-1-Floor-2	11/3/2007	2.5	2.5	ft bgs	--	--	--	--	--	--	--	--	--
D-1-Floor-3	11/3/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--
D-2-Floor	11/4/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--
D2R-W-E	11/17/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
D-2-SW-E	11/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
D-2-SW-S	11/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
D-3-Floor	11/4/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--
D-3-SW-N	11/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
D-3-SW-S	11/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
D-3-SW-W	11/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
D-Berm-2	11/3/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
D-Berm-W-S	11/17/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
D-HA-2	6/16/2010	0	2	ft bgs	--	--	--	--	--	--	--	--	--
D-HA-3	6/16/2010	0	2	ft bgs	--	--	--	--	--	--	--	--	--
E-Floor	11/17/2007	5.5	5.5	ft bgs	--	--	--	--	--	--	--	--	--
E-W-E	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--
E-W-N	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--
E-W-S	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--
E-W-W	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--
F SUP NW	11/9/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
F SUP SW	11/9/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
F1-Floor	12/6/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--
F2-Floor	12/6/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--
F3-Floor 1	12/6/2007	5	5	ft bgs	--	--	--	--	--	--	--	--	--
F3-Floor 2	12/6/2007	6	6	ft bgs	--	--	--	--	--	--	--	--	--
F3-W-E	12/6/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--
F4-Floor	12/6/2007	8	8	ft bgs	--	--	--	--	--	--	--	--	--
F4-W-E	12/6/2007	5	8	ft bgs	--	--	--	--	--	--	--	--	--
F5-Floor	12/17/2007	8	8	ft bgs	--	--	--	--	--	--	--	--	--
F5-Floor 3	12/17/2007	5	5	ft bgs	--	--	--	--	--	--	--	--	--
F5-Floor-2	12/14/2007	5	5	ft bgs	--	--	--	--	--	--	--	--	--
F5-W-S	12/19/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
F5-W-S	12/19/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--
F5-W-S	12/19/2007	5	8	ft bgs	--	--	--	--	--	--	--	--	--
F6 Floor 1	12/19/2007	3	3	ft bgs	--	--	--	--	--	--	--	--	--
F6 Floor 2	12/19/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--
F6-W-W	12/19/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
F-Floor	11/6/2007	5	5	ft bgs	--	--	--	--	--	--	--	--	--
G2NE	10/29/2007	0	3	ft bgs	--	--	--	--	--	--	--	--	--
G4 - Floor	11/6/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--
G4-W-S	11/15/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
G5-Floor	11/15/2007	5	5	ft bgs	--	--	--	--	--	--	--	--	--

**Table 3 - Summary of Soil Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia**

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units	Cadmium mg/kg	Chromium mg/kg	Copper mg/kg	Mercury mg/kg	Nickel mg/kg	Silver mg/kg	Thallium mg/kg	Zinc mg/kg	2,4-Dinitrotoluene mg/kg
G5-W-E (R)	11/28/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--
G5-W-N	11/15/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--
G5-W-S	11/15/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--
G-Floor	10/30/2007	3	3	ft bgs	--	--	--	--	--	--	--	--	--
G-N2-Floor	11/1/2007	3	3	ft bgs	--	--	--	--	--	--	--	--	--
G-N-Floor	10/31/2007	3	3	ft bgs	--	--	--	--	--	--	--	--	--
G-NW-SW	11/6/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
GP-01-05	8/17/2005	15	20	ft bgs	--	--	--	--	--	--	--	--	--
GP-01-05	8/17/2005	25	30	ft bgs	--	--	--	--	--	--	--	--	--
GP-02-05	8/17/2005	10	15	ft bgs	--	--	--	--	--	--	--	--	--
GP-02-05	8/17/2005	20	25	ft bgs	--	--	--	--	--	--	--	--	--
GP-03-05	8/17/2005	15	20	ft bgs	--	--	--	--	--	--	--	--	--
GP-03-05	8/17/2005	20	25	ft bgs	--	--	--	--	--	--	--	--	--
GP-04-05	8/17/2005	10	15	ft bgs	--	--	--	--	--	--	--	--	--
GP-04-05	8/17/2005	15	20	ft bgs	--	--	--	--	--	--	--	--	--
GP-05-05	8/18/2005	10	15	ft bgs	--	--	--	--	--	--	--	--	--
GP-05-05	8/18/2005	15	20	ft bgs	--	--	--	--	--	--	--	--	--
GP-06-05	8/18/2005	10	15	ft bgs	--	--	--	--	--	--	--	--	--
GP-06-05	8/18/2005	15	20	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-01	4/23/2007	4	5	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-02	4/23/2007	2	3	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-03	4/24/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-04	4/24/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-05	4/24/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-06	4/25/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-07	4/26/2007	2	3	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-08	8/15/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-09	8/15/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-10	8/15/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-11	8/15/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-12	8/15/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-13	8/15/2007	2	3	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-14	8/15/2007	2	3	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-15	8/15/2007	2	3	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-16	8/15/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-17	8/16/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-18	8/16/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-19	8/16/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-20	8/16/2007	2	3	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-21	8/16/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--
GP-07-22	8/16/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--
G-W-N	12/11/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
HA-07-02	10/22/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--

**Table 3 - Summary of Soil Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia**

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units	Cadmium mg/kg	Chromium mg/kg	Copper mg/kg	Mercury mg/kg	Nickel mg/kg	Silver mg/kg	Thallium mg/kg	Zinc mg/kg	2,4-Dinitrotoluene mg/kg
HA-07-04	10/22/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--
HA-07-06	10/23/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--
HA-07-08	11/4/2007	4	6	ft bgs	--	--	--	--	--	--	--	--	--
I16	12/17/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
I1-Floor	11/12/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--
I1-SW	11/12/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
I2-Floor	11/12/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--
I3-Floor	11/13/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--
I3-W-W	11/13/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
I4-Floor	11/13/2007	5	5	ft bgs	--	--	--	--	--	--	--	--	--
I4-W-N	11/13/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--
I4-W-S	11/27/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
I4-W-W	11/13/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--
I5-Floor	11/13/2007	3	3	ft bgs	--	--	--	--	--	--	--	--	--
I5-W-N (R)	11/28/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
I6-Floor	11/13/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--
I6-W-W	11/13/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
I7-Floor	11/14/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--
I7-W-S	11/14/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
I7-W-W	11/14/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
I8-Floor	11/28/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--
I8-W-S	11/28/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
I8-W-W	11/28/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
I9-Floor	11/28/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--
I9-W-N	11/28/2007	0	2	ft bgs	--	--	--	--	--	--	--	--	--
I-Floor-1	12/14/2007	8	8	ft bgs	--	--	--	--	--	--	--	--	--
IVOC-Floor -2	12/14/2007	8	8	ft bgs	--	--	--	--	--	--	--	--	--
MW-2	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
MW-18	5/15/2005	2	5	ft bgs	--	--	--	--	--	--	--	--	--
MW-18	5/15/2005	5	8	ft bgs	--	--	--	--	--	--	--	--	--
MW-19	5/15/2005	2	4	ft bgs	--	--	--	--	--	--	--	--	--
MW-19	5/15/2005	6	9	ft bgs	--	--	--	--	--	--	--	--	--
SB-1	8/25/1999	0.5	1.5	ft bgs	1.5	21	29	< 0.500	< 1.00	< 5.00	--	110	< 1700
SB-1	8/25/1999	4.5	6.5	ft bgs	0.69	5.2	6.9	< 0.500	1.2	< 5.00	--	< 100	< 330
SB-2	8/25/1999	0.5	1.5	ft bgs	1.7	15	38	< 0.500	3.9	< 5.00	--	< 100	< 330
SB-2	8/25/1999	3.5	5.5	ft bgs	--	--	--	--	--	--	--	--	--
SB-2	8/25/1999	3.5	5.5	ft bgs	1.2	11	18	< 0.500	2.5	< 5.00	--	< 100	< 330
SB-3	8/25/1999	3.5	5.5	ft bgs	0.52	< 5.00	870	< 0.500	< 1.00	< 5.00	--	< 100	< 330
SB-4	8/25/1999	1	2	ft bgs	2.5	24	< 5.00	< 0.500	3.9	< 5.00	--	< 100	< 330
SB-4	8/25/1999	4	6	ft bgs	1.1	11	27	< 0.500	2.3	< 5.00	--	< 100	< 330
SB-4	8/25/1999	6	8	ft bgs	< 0.500	< 5.00	38	--	< 1.00	< 5.00	--	--	--
SB-5	8/25/1999	0.5	1.5	ft bgs	< 0.500	< 5.00	< 5.00	< 0.500	< 1.00	< 5.00	--	< 100	< 330
SB-5	8/25/1999	3.5	5.5	ft bgs	0.77	8.2	5.9	< 0.500	1.4	< 5.00	--	< 100	< 330

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Colonial Terminals, Plant #2
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Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units	Cadmium mg/kg	Chromium mg/kg	Copper mg/kg	Mercury mg/kg	Nickel mg/kg	Silver mg/kg	Thallium mg/kg	Zinc mg/kg	2,4-Dinitrotoluene mg/kg
SB-6	8/25/1999	1	1.5	ft bgs	1.3	8.7	17	< 0.500	3	< 5.00	--	< 100	< 1700
SB-6	8/25/1999	3.5	5.5	ft bgs	< 0.500	5.5	9.2	< 0.500	< 1.00	< 5.00	--	< 100	< 330
SB-7	8/25/1999	0.5	1.5	ft bgs	< 0.500	< 5.00	9.5	< 0.500	< 1.00	< 5.00	--	< 100	< 330
SB-7	8/25/1999	3.5	5.5	ft bgs	0.56	< 5.00	12	< 0.500	< 1.00	< 5.00	--	< 100	460
SB-8	8/25/1999	0.5	1.5	ft bgs	1.9	9.6	42	0.52	< 1.00	< 5.00	--	< 100	< 330
SB-8	8/25/1999	3.5	5.5	ft bgs	3.6	27	26	< 0.500	4.5	< 5.00	--	< 100	< 330
SB-9	8/25/1999	0.5	1.5	ft bgs	2.3	69	300	2.2	7.5	< 5.00	--	260	< 330
SB-9	8/25/1999	3.5	5.5	ft bgs	1.5	24	120	1.7	5.1	< 5.00	--	120	< 330
SB-20	10/1/2001	0	2	ft bgs	< 0.570	11	38	0.21	< 4.60	--	--	90	--
SB-20	10/1/2001	3	5	ft bgs	--	--	140	6.7	< 4.80	--	--	310	--
SB-20	10/1/2001	6	8	ft bgs	--	--	3.8	< 0.0240	--	--	--	400	--
SB-21	10/1/2001	0	2	ft bgs	--	--	--	--	--	--	--	--	--
SB-21	10/1/2001	3	5	ft bgs	< 0.600	--	--	--	--	--	--	--	--
SB-22	11/15/2001	0	1.5	ft bgs	0.51	25	190	0.39	25	< 1.00	0.29	320	--
SB-23	10/15/2001	0	2	ft bgs	--	2.9	5.1	0.24	< 4.10	--	--	--	< 380
SB-26	10/15/2001	0	2	ft bgs	--	--	65	0.94	--	--	--	97	--
SB-27	10/15/2001	3	5	ft bgs	--	23	41	0.037	--	< 1.20	--	46	--
SB-27	10/15/2001	6	8	ft bgs	--	15	37	--	--	--	--	43	--
SB-28	10/15/2001	3	5	ft bgs	--	--	530	7.8	6.3	1.2	--	1400	< 380
SB-28	10/15/2001	6	8	ft bgs	--	--	400	0.058	< 4.30	--	--	230	< 380
SB-29	10/1/2001	0	2	ft bgs	< 0.480	16	--	--	--	--	--	--	--
SB-29	10/1/2001	3	5	ft bgs	< 0.540	4.6	--	--	--	--	--	--	--
SB-30	10/1/2001	3	5	ft bgs	< 0.490	--	59	--	--	--	--	--	--
SB-30	10/1/2001	6	8	ft bgs	--	--	39	--	--	--	--	--	--
SB-31	11/15/2001	0	2	ft bgs	--	9.6	71	1.2	< 4.00	< 0.990	--	--	--
SB-32	11/15/2001	0	2	ft bgs	--	--	--	0.17	--	--	--	--	--
SB-32	11/15/2001	3	5	ft bgs	--	--	3.5	0.085	--	--	--	12	--
SB-33	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-34	9/15/2002	0	2	ft bgs	< 0.620	8.4	12	--	< 5.00	--	--	74	--
SB-37	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-38	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-38	9/15/2002	5	6.5	ft bgs	--	--	--	--	--	--	--	--	--
SB-40	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-41	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-41	9/15/2002	5	7	ft bgs	--	--	--	--	--	--	--	--	--
SB-42	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-42	9/15/2002	5.5	7	ft bgs	--	--	--	--	--	--	--	--	--
SB-43	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-43	9/15/2002	6	8	ft bgs	--	--	--	--	--	--	--	--	--
SB-44	9/15/2002	6	8	ft bgs	--	--	--	--	--	--	--	--	--
SB-45	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-45	9/15/2002	6	8	ft bgs	--	--	--	--	--	--	--	--	--
SB-46	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	--

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Colonial Terminals, Plant #2
Savannah, Georgia**

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units	Cadmium mg/kg	Chromium mg/kg	Copper mg/kg	Mercury mg/kg	Nickel mg/kg	Silver mg/kg	Thallium mg/kg	Zinc mg/kg	2,4-Dinitrotoluene mg/kg
SB-46	9/15/2002	6	8	ft bgs	--	--	--	--	--	--	--	--	--
SB-47	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-47	9/15/2002	6	8	ft bgs	--	--	--	--	--	--	--	--	--
SB-48	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	--	--
SB-48	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-49	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-50	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	--	--
SB-50	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-52	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	--	--
SB-52	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	--	--
SB-53	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	--	--
SB-53	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	--	--
SB-54	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	--	--
SB-54	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	--	--
SB-55	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	--	--
SB-55	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	--	--
SB-56	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	--	--
SB-56	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	--	--
SB-57	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	--	--
SB-57	9/15/2003	5	7	ft bgs	--	--	--	--	--	--	--	--	--
SB-58	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	--	--
SB-58	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	--	--
SB-59	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-59	9/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	--	--
SB-60	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-60	9/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	--	--
SB-61	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-61	9/15/2003	5.5	7	ft bgs	--	--	--	--	--	--	--	--	--
SB-62	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-63	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-64	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-65	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-66	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-67	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-68	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-68	11/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	--	--
SB-69	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-69	11/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	--	--
SB-70	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-70	11/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	--	--
SB-71	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-72	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-72	11/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	--	--

**Table 3 - Summary of Soil Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia**

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units	Cadmium mg/kg	Chromium mg/kg	Copper mg/kg	Mercury mg/kg	Nickel mg/kg	Silver mg/kg	Thallium mg/kg	Zinc mg/kg	2,4-Dinitrotoluene mg/kg
SB-73	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-74	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--
SB-74	11/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	--	--
SL-BF-1	12/11/2007	1	1	ft bgs	--	--	--	--	--	--	--	--	--
SL-BF-1	12/11/2007	4	4	ft bgs	--	--	--	--	--	--	--	--	--
SL-BF-2	12/11/2007	1	1	ft bgs	--	--	--	--	--	--	--	--	--
SL-BF-2	12/11/2007	4	4	ft bgs	--	--	--	--	--	--	--	--	--
SL-BF-3	12/11/2007	1	1	ft bgs	--	--	--	--	--	--	--	--	--
SL-BF-3	12/11/2007	4	4	ft bgs	--	--	--	--	--	--	--	--	--
Station 12+00	4/15/2000	6	8	ft bgs	<1.34	8.74	43.3	6.18	<2.68	<1.34	--	34.2	--
Station 13+50	8/15/2000	5.5	8	ft bgs	--	--	260	0.22	--	<2.5	<5.0	68.3	--
Station 15+00	4/11/2000	6	8	ft bgs	<1.59	8.38	24	2.2	17.8	<1.59	--	17.8	--
Station 15+00	4/11/2000	10.5	10.5	ft bgs	--	--	--	--	--	--	--	--	--
Station 15+00	4/11/2000	13	13	ft bgs	--	--	--	--	--	--	--	--	--
Station 15+00	4/11/2000	15.5	15.5	ft bgs	--	--	--	--	--	--	--	--	--
Station 15+00	4/11/2000	18	18	ft bgs	--	--	--	--	--	--	--	--	--
Station 16+50	8/15/2000	5.5	8	ft bgs	--	--	6.09	<1.0	--	<2.49	<4.99	14.5	--
Station 18+00	4/12/2000	6	8	ft bgs	<2.19	41.8	637	15.4	16.1	2.47	--	664	--
Station 18+00	4/12/2000	10.5	10.5	ft bgs	--	--	--	--	--	--	--	--	--
Station 18+00	4/12/2000	13	13	ft bgs	--	--	--	--	--	--	--	--	--
Station 18+00	4/12/2000	15.5	15.5	ft bgs	--	--	--	--	--	--	--	--	--
Station 19+50	8/15/2000	5.5	8	ft bgs	--	--	1910	0.13	--	<2.49	<4.99	1230	--
Station 21+00	4/15/2000	6	8	ft bgs	4.95	6.75	1380	4.11	7.37	6.21	--	3400	--
TW-10	12/14/2005	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-11	12/14/2005	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-12	3/20/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-13	3/21/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-14	3/21/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-15	3/21/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-16	3/21/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-17	3/21/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-18	3/21/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-19	3/22/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-20	3/22/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-21	3/23/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-22	3/23/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-23	3/23/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-24	3/23/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-25	5/25/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-26	5/25/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-27	5/25/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-29	4/23/2007	4	5	ft bgs	--	--	--	--	--	--	--	--	--
TW-30	4/24/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--

**Table 3 - Summary of Soil Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia**

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units	Cadmium mg/kg	Chromium mg/kg	Copper mg/kg	Mercury mg/kg	Nickel mg/kg	Silver mg/kg	Thallium mg/kg	Zinc mg/kg	2,4-Dinitrotoluene mg/kg
TW-31	4/24/2007	4	5	ft bgs	--	--	--	--	--	--	--	--	--
TW-32	4/24/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--
TW-5	12/14/2005	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-6	12/14/2005	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-7	12/14/2005	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-8	12/14/2005	5	7	ft bgs	--	--	--	--	--	--	--	--	--
TW-9	12/14/2005	5	7	ft bgs	--	--	--	--	--	--	--	--	--
A-SB-1	11/14/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
A-SB-1	11/14/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
A-SB-5	11/14/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
A-SB-5	11/14/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
A-SB-6	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-1	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-2	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-3	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-3 DUP	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-3	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-3 DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-8	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-8	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-8 DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-9	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-10	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-12	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-13	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-13	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-13DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-18	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-18	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-20	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-23	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-23DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-27	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-28	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-28DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-38	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-38 DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-42	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-44	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-48	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-48 DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-52	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-53	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--

**Table 3 - Summary of Soil Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia**

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units	Cadmium mg/kg	Chromium mg/kg	Copper mg/kg	Mercury mg/kg	Nickel mg/kg	Silver mg/kg	Thallium mg/kg	Zinc mg/kg	2,4-Dinitrotoluene mg/kg
B-SB-53	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
B-SB-53 DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
C-SB-1	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
C-SB-1	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
C-SB-1	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--
C-SB-3	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--
C-SB-4	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
C-SB-4	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
C-SB-4	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--
C-SB-5	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
C-SB-5	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
C-SB-5	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--
C-SB-6	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
C-SB-6	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
C-SB-6	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--
D-SB-2	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
D-SB-8	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
E-SB-1	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
E-SB-1	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
E-SB-1	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--
E-SB-3	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--
E-SB-4	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
E-SB-4	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
E-SB-4	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--
F-SB-1	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
F-SB-1	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
F-SB-7	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
F-SB-7	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
F-SB-8	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
F-SB-8	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
F-SB-10	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
F-SB-10	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
F-SB-13	11/14/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--
F-SB-14	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
F-SB-15	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
F-SB-16	11/14/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--
F-SB-18	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
F-SB-20	11/14/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
F-SB-20	11/14/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
G-SB-1	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
G-SB-3	11/14/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--
G-SB-4	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
G-SB-5	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--

**Table 3 - Summary of Soil Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia**

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units	Cadmium mg/kg	Chromium mg/kg	Copper mg/kg	Mercury mg/kg	Nickel mg/kg	Silver mg/kg	Thallium mg/kg	Zinc mg/kg	2,4-Dinitrotoluene mg/kg
G-SB-5	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
G-SB-6	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
G-SB-7	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
G-SB-8	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
G-SB-9	11/14/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
G-SB-10	11/14/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
H-SB-1	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
H-SB-5	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
H-SB-6	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
H-SB-7	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
I-SB-1	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
I-SB-2	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
I-SB-3	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
I-SB-3	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
I-SB-4	10/5/2006	2	4	ft bgs	--	--	--	--	--	--	--	--	--
I-SB-5	10/5/2006	2	4	ft bgs	--	--	--	--	--	--	--	--	--
I-SB-8	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
I-SB-9	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
I-SB-9	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--
I-SB-10	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--	--
I-SB-10	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--

Notes:

Sample was collected from below the water table

mg/kg -- Milligrams per kilogram (parts per million)

ft bgs -- Feet below ground surface

< Analyte was not detected at the laboratory reporting limit indicated

-- Analyte was not sampled for

Table 4 - Summary of Groundwater Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Analyte Units Fraction	1,1-DCE ug/l Total	cis-1,2-DCE ug/l Total	trans-1,2-DCE ug/l Total	Methylene Chloride ug/l Total	PCE ug/l Total	TCE ug/l Total	Vinyl Chloride ug/l Total	Antimony mg/l Total	Arsenic mg/l Dissolved	Arsenic mg/l Total	Barium mg/l Total	Beryllium mg/l Total	Cadmium mg/l Total	Calcium mg/l Dissolved	Calcium mg/l Total	Chromium (total) mg/l Total	Copper mg/l Total	Iron mg/l Dissolved
GP-01-05 / TW-01	8/17/2005	526	7820	41.2	--	3820	1730	106	--	--	--	--	--	--	--	--	--	--	--
GP-01-05 / TW-01	9/22/2005	847	7280	40.5	--	26700	4880	182	--	--	--	--	--	--	--	--	--	--	--
GP-01-05 / TW-01	10/27/2005	1520	12400	90.6	--	46900	8530	300	--	--	--	--	--	--	--	--	--	--	--
GP-01-05 / TW-01	5/18/2007	880	7000	<200	<1000	20000	5000	<200	--	--	<0.01	0.039	--	<0.005	--	33	<0.01	--	--
GP-01-05 / TW-01	6/19/2007	300	3400	<100	<500	11000	1900	<100	--	--	--	--	--	--	--	--	--	--	--
GP-01-05 / TW-01	7/16/2007	380	4000	<100	<100	9100	2800	<500	--	--	<0.01	0.036	--	0.005	--	31	<0.01	--	--
GP-01-05 / TW-01	8/15/2007	360	4700	<100	<500	12000	3300	<100	--	--	--	--	--	--	--	--	--	--	--
GP-02-05 / TW-02	8/17/2005	176	2670	11.6	--	3400	853	37.9	--	--	--	--	--	--	--	--	--	--	--
GP-02-05 / TW-02	9/22/2005	123	1470	7.7	--	3560	668	10.6	--	--	--	--	--	--	--	--	--	--	--
GP-02-05 / TW-02	10/27/2005	278	3460	8.46	--	8470	1770	14.1	--	--	--	--	--	--	--	--	--	--	--
GP-02-05 / TW-02	5/18/2007	90	1000	<10	<50	1700	350	<10	--	--	--	--	--	--	--	--	--	--	--
GP-02-05 / TW-02	6/19/2007	48	310	<10	<50	990	120	<10	--	--	--	--	--	--	--	--	--	--	--
GP-02-05 / TW-02	7/16/2007	39	200	<25	<25	880	180	<120	--	--	--	--	--	--	--	--	--	--	--
GP-02-05 / TW-02	8/15/2007	21	130	<5	<25	600	120	<5	--	--	--	--	--	--	--	--	--	--	--
GP-03-05 / TW-03	8/17/2005	120	116	1.24	--	2390	1170	6.58	--	--	--	--	--	--	--	--	--	--	--
GP-03-05 / TW-03	9/22/2005	139	376	1.57	--	4100	1590	19.1	--	--	--	--	--	--	--	--	--	--	--
GP-03-05 / TW-03	10/27/2005	346	91.8	<1	--	2570	4350	5.24	--	--	--	--	--	--	--	--	--	--	--
GP-03-05 / TW-03	5/18/2007	420	190	<250	<120	4200	3000	<25	--	--	<0.01	0.0025	--	0.007	--	26	<0.01	--	--
GP-03-05 / TW-03	6/19/2007	210	250	<50	<250	6500	2700	<50	--	--	--	--	--	--	--	--	--	--	--
GP-03-05 / TW-03	7/16/2007	32	160	<5	<5	690	170	<25	--	--	<0.01	0.023	--	<0.005	--	9.2	<0.01	--	--
GP-03-05 / TW-03	8/15/2007	45	270	<25	<120	3400	830	<25	--	--	--	--	--	--	--	--	--	--	--
GP-04-05 / TW-04	8/17/2005	129	1880	5.82	--	18100	1360	86	--	--	--	--	--	--	--	--	--	--	--
GP-04-05 / TW-04	9/22/2005	57.9	1140	7.52	--	4920	880	43.5	--	--	--	--	--	--	--	--	--	--	--
GP-04-05 / TW-04	10/27/2005	736	7660	41.8	--	30600	4920	324	--	--	--	--	--	--	--	--	--	--	--
GP-04-05 / TW-04	5/18/2007	<91	1900	<50	<250	7700	1300	100	--	--	<0.01	0.031	--	<0.005	--	17	<0.01	--	--
GP-04-05 / TW-04	6/19/2007	<10	140	<10	<50	670	160	<10	--	--	--	--	--	--	--	--	--	--	--
GP-04-05 / TW-04	7/16/2007	<5	210	5.6	<5	510	200	<25	--	--	<0.01	0.032	--	<0.005	--	17	<0.01	--	--
GP-04-05 / TW-04	8/15/2007	28	710	<20	<1	2800	890	<20	--	--	--	--	--	--	--	--	--	--	--
GP-05-05	8/18/2005	124	3110	13.6	--	5100	1110	105	--	--	--	--	--	--	--	--	--	--	--
GP-06-05	8/18/2005	151	3090	5.99	--	13400	1670	116	--	--	--	--	--	--	--	--	--	--	--
GW-1	8/30/2001	--	--	--	--	--	--	--	<0.006	--	<0.02	0.0275	<0.004	0.0096	--	--	0.0101	1.72	--
MW-1	8/1/1998	--	--	--	--	--	280	--	<0.006	--	0.063	<0.01	<0.003	<0.005	--	--	<0.05	<0.05	--
MW-1	9/1/2002	--	--	--	--	--	--	--	--	--	0.033	--	--	--	--	--	--	--	--
MW-1	9/2/2002	--	--	--	--	--	<5	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	11/1/2003	--	--	--	--	--	--	--	<0.006	--	<0.05	<0.01	<0.004	<0.005	--	--	<0.01	<0.02	--
MW-1	2/5/2005	<5	20	<5	--	<5	<5	7	--	--	--	--	--	--	--	--	--	--	--
MW-1	11/1/2007	<1	<1	<1	<5	180	27	<1	--	--	--	--	--	--	--	--	--	--	--
MW-1	11/4/2007	<1	<1	<1	<5	0.066	0.0066	<1	--	--	--	--	--	--	--	--	--	--	--
MW-1	11/12/2007	<1	<1	<1	<5	0.03	0.0043	<1	--	--	--	--	--	--	--	--	--	--	--
MW-1	8/13/2008	<1	13	<1	<5	<1	0.62	8.7	--	--	<0.01	--	--	--	--	--	--	--	--
MW-1	9/1/2009	<1	12.4	<1	<5	3.2	0.42 J	<1	--	--	0.011	--	--	--	--	40.4	--	--	--
MW-1	8/30/2010	0.68	55.1	<1	<5	<1	1.4	25.2	--	--	0.0089	--	--	--	--	27.5	--	--	--
MW-2	8/1/1998	--	--	--	<5	--	3900	--	<0.006	--	0.089	<0.01	<0.003	<0.005	--	--	<0.05	<0.05	--
MW-2	9/1/2002	--	--	--	--	--	--	--	--	--	0.014	--	--	--	--	--	--	--	--
MW-2	9/2/2002	--	--	--	--	--	170	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	11/1/2003	--	--	--	--	--	--	--	<0.006	--	<0.05	<0.01	<0.004	<0.005	--	--	<0.01	0.05	--
MW-2	2/5/2005	160	100	<5	--	1800	2000	33	--	--	--	--	--	--	--	--	--	--	--

Table 4 - Summary of Groundwater Analytical Data
 Colonial Terminals, Plant #2
 Savannah, Georgia

Sample ID	Analyte Units Fraction	1,1-DCE ug/l Total	cis-1,2-DCE ug/l Total	trans-1,2-DCE ug/l Total	Methylene Chloride ug/l Total	PCE ug/l Total	TCE ug/l Total	Vinyl Chloride ug/l Total	Antimony mg/l Total	Arsenic mg/l Dissolved	Arsenic mg/l Total	Barium mg/l Total	Beryllium mg/l Total	Cadmium mg/l Total	Calcium mg/l Dissolved	Calcium mg/l Total	Chromium (total) mg/l Total	Copper mg/l Total	Iron mg/l Dissolved
MW-3	8/1/1998	--	--	--	<5	--	43	--	<0.006	--	0.078	<0.5	<0.003	<0.005	--	--	<0.05	<0.05	--
MW-3	8/1/1998	--	--	--	<5	--	34	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/5/2005	<5	5	<5	--	100	37	<2	--	--	--	--	--	--	--	--	--	--	--
MW-3	11/1/2007	<1	1	<1	<5	180	27	<1	--	--	--	--	--	--	--	--	--	--	--
MW-3	11/4/2007	<1	<1	<1	<5	66	6.4	<1	--	--	--	--	--	--	--	--	--	--	--
MW-3	11/11/2007	<1	<1	<1	<5	30	4.3	<1	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/1/2008	--	--	--	--	--	--	--	--	--	0.32	--	--	--	--	190	--	--	--
MW-3	8/13/2008	<1	1.1	<1	<5	114	13.9	<1	--	--	--	--	--	--	--	--	--	--	--
MW-3	9/1/2009	<1	2.8	<1	<5	103	23.8	<1	--	0.175	0.214	--	--	--	133	158	--	--	<0.023
MW-3	8/30/2010	0.48	17	0.45	<5	323	242	0.47	--	--	0.262	--	--	--	--	29.8	--	--	--
MW-4	8/1/1998	--	--	--	17	--	9.1	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/5/2005	980	<5	<5	--	87	46	<2	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/1/2001	--	--	--	<10	--	180	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	9/2/2002	--	--	--	--	--	270	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/4/2004	16	90	58 J	<5	130	240	50 J	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/5/2005	9	35	<5	--	110	140	3	--	--	--	--	--	--	--	--	--	--	--
MW-6R	8/12/2008	4.5	11.6	<1	<5	58	60.5	0.57	--	--	0.0383	--	--	--	--	9.71	--	--	--
MW-6R	9/1/2009	<1	0.77	<1	<5	2.4	2	<1	--	--	0.0068 B	--	--	--	--	34.9	--	--	--
MW-6R	8/31/2010	<1	0.5	<1	<5	2.3	1.6	<1	--	--	0.0059	--	--	--	--	23.8	--	--	--
MW-7	10/1/2001	--	--	--	<10	--	180	--	--	--	0.069	<0.01	<0.004	--	--	--	--	0.029	--
MW-7	11/1/2001	--	--	--	--	--	--	--	--	--	<0.01	--	--	--	--	--	--	--	--
MW-7	11/19/2001	<5	<5	<5	<5	<5	<5	<10	--	--	--	--	--	--	--	--	--	--	--
MW-7	9/1/2002	--	--	--	--	--	--	--	--	--	0.09	--	--	--	--	--	--	--	--
MW-7	9/2/2002	--	--	--	--	--	270	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	9/30/2003	<5	32 J	<5	<5	74 J	<530	12 J	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/1/2003	--	--	--	--	--	--	--	<0.006	--	<0.05	0.03	<0.004	<0.005	--	--	<0.01	0.05	--
MW-8	10/1/2001	--	--	--	--	--	<5	--	--	--	<0.01	--	--	--	--	--	--	--	--
MW-8	11/1/2001	--	--	--	--	--	--	--	--	--	<0.01	--	--	--	--	--	--	<0.02	--
MW-8	11/19/2001	26	21	<12	<12	290	410	<25	--	--	--	--	--	--	--	--	--	--	--
MW-8	2/5/2005	6	11	<5	--	83	100	<5	--	--	--	--	--	--	--	--	--	--	--
MW-8	5/20/2008	1.7	2.3	<1	<5	22.8	25.2	0.57	--	--	<0.01	--	--	--	--	358	--	--	--
MW-8	9/1/2009	0.82	1.4	<1	<5	12.2	15.6	<1	--	--	--	--	--	--	--	--	--	--	--
MW-8	8/31/2010	0.48	0.99	<1	<5	9.3	8.4	<1	--	--	--	--	--	--	--	--	--	--	--
MW-9	10/1/2001	--	--	--	--	--	--	--	--	--	--	--	--	<0.005	--	--	--	<0.02	--
MW-9	11/1/2001	--	--	--	--	--	410	--	--	--	<0.01	--	--	--	--	--	--	--	--
MW-9	9/19/2002	--	--	--	--	--	170	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	11/1/2003	<5	<5	<5	<5	<5	<5	<5	<0.006	--	0.46	0.11	<0.004	<0.005	--	--	<0.01	<0.02	--
MW-9	2/1/2005	--	--	--	--	--	--	--	--	--	0.28	--	--	--	--	--	--	--	--
MW-9D	11/1/2001	11	<5	<5	<5	6.8	<5	<10	--	--	<0.01	0.044	0.044	--	--	--	--	<0.02	--
MW-9D	9/29/2003	1300	10000	500	180	55000	6700	350	--	--	--	--	--	--	--	--	--	--	--
MW-9D	9/30/2003	10	26 J	<5	<5	32	5.7	35 J	--	--	--	--	--	--	--	--	--	--	--
MW-9D	10/1/2003	--	--	--	--	--	<1	--	--	--	--	--	--	--	--	--	--	--	--
MW-9D	11/1/2003	--	--	--	--	--	--	--	<0.006	--	<0.05	0.02	<0.004	<0.005	--	--	<0.01	0.05	--
MW-9D	2/5/2005	10	7	<5	--	55	13	<2	--	--	--	--	--	--	--	--	--	--	--
MW-9D	10/5/2006	--	--	--	--	--	--	--	--	--	<0.01	--	--	--	--	--	--	--	--
MW-9D	8/12/2008	15.7	34	<2	9.6	211	31.7	6.6	--	--	0.0064 B	--	--	--	--	487	<0.6	--	--
MW-9D	9/1/2009	<1	27.5	9.6	<5	275	26.9	5	--	--	--	--	--	--	--	--	--	--	--
MW-9D	9/2/2009	9.6	27.5	<5	<25	275	26.9	5	--	--	<0.0054	--	--	0.0044 B	--	499	<0.002	--	--
MW-9D	9/1/2010	10.9	50.5	<5	<25	265	36.9	6.6	--	--	<0.002	--	--	0.0041	--	481	<0.001	--	--

Table 4 - Summary of Groundwater Analytical Data
 Colonial Terminals, Plant #2
 Savannah, Georgia

Sample ID	Analyte Units Fraction	1,1-DCE ug/l Total	cis-1,2-DCE ug/l Total	trans-1,2-DCE ug/l Total	Methylene Chloride ug/l Total	PCE ug/l Total	TCE ug/l Total	Vinyl Chloride ug/l Total	Antimony mg/l Total	Arsenic mg/l Dissolved	Arsenic mg/l Total	Barium mg/l Total	Beryllium mg/l Total	Cadmium mg/l Total	Calcium mg/l Dissolved	Calcium mg/l Total	Chromium (total) mg/l Total	Copper mg/l Total	Iron mg/l Dissolved
MW-10	10/1/2001	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.005	--	--
MW-10	11/1/2001	--	--	--	--	--	--	--	--	--	--	--	--	<0.005	--	--	--	0.51	--
MW-10	9/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	9/29/2003	<5	<5	<5	<5	<5	<5	<5	--	--	--	--	--	--	--	--	--	--	--
MW-10	10/1/2003	--	--	--	--	--	<1	--	<0.006	--	<0.05	0.05	<0.004	<0.005	--	--	<0.01	0.13	--
MW-11	11/1/2001	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.005	--	--
MW-11	9/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	9/29/2003	1300	10000	500	180	55000	6700	350	--	--	--	--	--	--	--	--	--	--	--
MW-11	5/20/2008	--	--	--	--	--	--	--	--	--	<0.01	0.0375 B	--	0.0029 B	--	22.2	<0.01	--	--
MW-11	9/2/2009	--	--	--	--	--	--	--	--	--	<0.0054	--	--	0.0028 B	--	26.4	0.0053 B	--	--
MW-11D	2/22/2005	<5	<5	<5	--	<5	<5	<2	--	--	--	--	--	--	--	--	--	--	--
MW-11R	2/1/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11R	2/22/2005	870	13000	40	--	43000	6500	650	--	--	--	--	--	--	--	--	--	--	--
MW-11R	9/16/2005	690	4300	<0.14	--	20000	4200	380	--	--	--	--	--	--	--	--	--	--	--
MW-11R	9/22/2005	98.3	1740	16.3	--	9980	1490	79.8	--	--	--	--	--	--	--	--	--	--	--
MW-11R	10/27/2005	668	9450	109	--	20000	5930	317	--	--	--	--	--	--	--	--	--	--	--
MW-11R	5/18/2007	440	7000	<200	<1000	29000	4100	<200	--	--	<0.01	0.041	--	<0.005	--	20	<0.01	--	--
MW-11R	6/6/2007	340	6400	<200	--	25000	3000	<200	--	--	--	--	--	--	--	--	--	--	--
MW-11R	6/19/2007	210	4800	<200	<1000	17000	1800	<200	--	--	--	--	--	--	--	--	--	--	--
MW-11R	7/3/2007	<50	1900	<50	<250	4900	690	<50	--	--	--	--	--	--	--	--	--	--	--
MW-11R	7/16/2007	<25	1200	51	<25	4700	750	<1.02	--	--	<0.01	0.036	--	<0.005	--	18	<0.01	--	--
MW-11R	8/15/2007	<25	650	<25	<120	2800	400	<25	--	--	--	--	--	--	--	--	--	--	--
MW-11R	9/2/2009	<1	4290	693	<5	17200	2420	176	--	--	--	--	--	--	--	--	--	--	--
MW-11R	9/1/2010	<250	5570	<250	<1300	18200	2900	218	--	--	<0.002	--	--	<0.0025	--	21.8	0.0049	--	--
MW-12	9/1/2002	--	--	--	--	--	--	--	--	--	<0.01	--	--	--	--	--	--	--	--
MW-12	9/2/2002	--	--	--	--	--	6400	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	11/1/2003	--	--	--	--	--	--	--	<0.006	--	0.19	<0.01	<0.004	<0.005	--	--	<0.01	0.11	--
MW-12	2/1/2005	--	--	--	--	--	--	--	--	--	0.18	--	--	--	--	--	--	--	--
MW-12	2/1/2005	--	--	--	--	--	--	--	--	--	0.19	--	--	--	--	--	--	--	--
MW-12	2/22/2005	80	92	<5	--	29000	1100	10	--	--	--	--	--	--	--	--	--	--	--
MW-12	10/24/2007	54	51	<10	<50	1100	45	<1	--	--	--	--	--	--	--	--	--	--	--
MW-12	11/1/2007	<50	17	<10	44	2000	35	<10	--	--	0.066	0.055	--	<0.005	--	260	<0.01	--	--
MW-12	11/3/2007	<5	<5	<5	<25	510	7.8	<5	--	--	--	--	--	--	--	--	--	--	--
MW-12	11/4/2007	--	--	--	--	--	--	--	--	--	0.04	0.12	--	<0.01	--	390	0.063	--	--
MW-12	11/12/2007	<5	5.6	<5	<25	970	12	<5	--	--	0.075	0.034	--	<0.005	--	130	0.03	--	--
MW-12	5/20/2008	<10	4.9	<10	<50	490	10.5	<10	--	--	0.0393	--	--	--	--	177	--	--	--
MW-12D	8/11/2008	1.4	19	<0.45	3.5	123	10.8	<1	--	--	--	--	--	--	--	--	--	--	--
MW-12D	9/2/2009	<5	1.8 J	<5	10.6 J	249	6	<5	--	--	--	--	--	--	--	--	--	--	--
MW-12D	8/30/2010	<2	1.4	<2	4.2	142	3.8	<2	--	--	--	--	--	--	--	--	--	--	--
MW-12D	8/31/2010	--	--	--	--	--	--	--	--	--	0.088	--	--	--	--	--	--	--	--
MW-12R	8/31/2010	<1000	<1000	<1000	<5000	71700	1960	<1000	--	--	0.0881	--	--	--	--	26.8	--	--	--
MW-13	9/1/2002	--	--	--	--	--	--	--	--	--	0.17	--	--	--	--	--	--	--	--
MW-13	9/2/2002	--	--	--	--	--	170	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	9/29/2003	5.2	2.2	<5	<5	32	88	13 J	--	--	--	--	--	--	--	--	--	--	--
MW-13	11/1/2003	--	--	--	--	--	--	--	<0.006	--	<0.05	<0.01	<0.004	<0.005	--	--	<0.01	0.05	--
MW-13	2/5/2005	<5	<5	<5	--	26	56	2	--	--	--	--	--	--	--	--	--	--	--
MW-14	9/1/2002	--	--	--	--	--	--	--	--	--	<0.01	--	--	--	--	--	--	--	--
MW-14	9/2/2002	--	--	--	--	--	180	--	--	--	--	--	--	--	--	--	--	--	--
MW-16	2/5/2005	<5	<5	<5	--	<5	<5	<2	--	--	--	--	--	--	--	--	--	--	--
MW-16	5/20/2008	<1	<1	<1	<5	<1	<1	<1	--	--	--	--	--	--	--	25	--	--	--
MW-16	9/2/2009	<1	<1	<1	<5	<1	<1	<1	--	--	0.0067 B	--	--	<0.001	--	24	<0.002	--	--
MW-16	9/1/2010	<1	<1	<1	<5	<1	<1	<1	--	--	--	--	--	--	--	26.9	--	--	--

Table 4 - Summary of Groundwater Analytical Data
 Colonial Terminals, Plant #2
 Savannah, Georgia

Sample ID	Analyte Units Fraction	1,1-DCE ug/l Total	cis-1,2-DCE ug/l Total	trans-1,2-DCE ug/l Total	Methylene Chloride ug/l Total	PCE ug/l Total	TCE ug/l Total	Vinyl Chloride ug/l Total	Antimony mg/l Total	Arsenic mg/l Dissolved	Arsenic mg/l Total	Barium mg/l Total	Beryllium mg/l Total	Cadmium mg/l Total	Calcium mg/l Dissolved	Calcium mg/l Total	Chromium (total) mg/l Total	Copper mg/l Total	Iron mg/l Dissolved
MW-17	2/1/2005	--	--	--	--	--	--	--	--	--	<0.05	--	--	--	--	--	--	--	--
MW-17	2/5/2005	<5	<5	<5	--	<5	<5	<2	--	--	--	--	--	--	--	--	--	--	--
MW-18	5/1/2005	23	22	<5	--	<5	7	5	--	--	<0.05	--	--	--	--	--	--	6.7	--
MW-18	6/1/2005	--	--	--	--	--	--	--	--	--	<0.05	--	--	--	--	--	--	--	--
MW-18	7/1/2005	--	--	--	--	--	--	--	--	--	<0.05	--	--	--	--	--	--	--	--
MW-18	8/1/2005	--	--	--	--	--	--	--	--	--	<0.05	--	--	--	--	--	--	--	--
MW-18	10/5/2006	--	--	--	--	--	--	--	--	--	0.01	--	--	--	--	--	--	--	--
MW-18	5/20/2008	13	29.2	<5	<25	183	28.3	3	--	--	0.0054 B	0.0225 B	--	0.003 B	--	456	<0.01	--	--
MW-18	9/2/2009	62.6	50.5	0.54 J	3.2 J	38.1	24	10.7	--	--	0.0072 B	--	--	0.0522	--	--	0.0425	--	--
MW-18	9/1/2010	58.4	72.2	<1	3.6	80.6	34.9	8.4	--	--	0.0032	--	--	0.0513	--	205	0.0417	--	--
MW-19	5/1/2005	<2	<5	<5	--	<5	<5	<2	--	--	<0.05	--	--	--	--	--	--	--	--
MW-19	6/1/2005	--	--	--	--	--	--	--	--	--	<0.05	--	--	--	--	--	--	--	--
MW-19	7/1/2005	--	--	--	--	--	--	--	--	--	<0.05	--	--	--	--	--	--	--	--
MW-19	8/1/2005	--	--	--	--	--	--	--	--	--	<0.05	--	--	--	--	--	--	--	--
MW-19	10/6/2006	--	--	--	--	--	--	--	--	--	<0.01	--	--	--	--	--	--	--	--
MW-19	5/20/2008	<1	<1	<1	<5	<1	<1	<1	--	--	<0.01	0.0105 B	--	0.0095	--	103	0.0544	--	--
MW-19	9/2/2009	<1	<1	<1	<5	<1	<1	<1	--	--	<0.0054	--	--	0.0299	--	288	0.189	--	--
MW-19	9/1/2010	<1	<1	<1	<5	<1	<1	<1	--	--	<0.01	--	--	0.0292	--	323	0.198	--	--
MW-20	10/24/2007	<1	<1	<1	<5	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--
MW-20	5/20/2008	--	--	--	--	--	--	--	--	--	<0.01	--	--	--	--	--	--	--	--
MW-20	9/1/2009	--	--	--	--	--	--	--	--	--	<0.0054	--	--	--	--	--	--	--	--
MW-20	9/2/2009	<1	<1	<1	<5	0.83 J	<1	<1	--	--	--	--	--	--	--	--	--	--	--
MW-20	8/31/2010	<1	<1	<1	<5	<1	<1	<1	--	--	<0.002	--	--	--	--	--	--	--	--
MW-21	5/21/2008	--	--	--	--	--	--	--	--	--	0.579	--	--	--	--	--	--	--	--
MW-21	9/3/2009	--	--	--	--	--	--	--	--	--	0.562	--	--	--	--	--	--	--	--
MW-21	9/1/2010	--	--	--	--	--	--	--	--	--	0.379	--	--	--	--	--	--	--	--
MW-22	5/21/2008	--	--	--	--	--	--	--	--	--	0.325	--	--	--	--	--	--	--	--
MW-22	9/3/2009	--	--	--	--	--	--	--	--	--	0.531	--	--	--	--	--	--	--	--
MW-22	9/1/2010	--	--	--	--	--	--	--	--	--	0.247	--	--	--	--	--	--	--	--
MW-23	5/21/2008	--	--	--	--	--	--	--	--	--	0.0613	--	--	--	--	--	--	--	--
MW-23	9/3/2009	--	--	--	--	--	--	--	--	--	0.106	--	--	--	--	--	--	--	--
MW-24	5/20/2008	76.8	35.7	<1	2.6	31.7	14.1	9.4	--	--	--	--	--	--	--	--	--	--	--
MW-24	5/21/2008	--	--	--	--	--	--	--	--	--	0.0042 B	0.0096 B	--	0.0227	--	--	0.0032 B	--	--
MW-24	9/3/2009	43.8	42	<1	1.1 J	97.9	28.5	7	--	--	<0.0054	--	--	--	--	--	--	--	--
MW-24	9/1/2010	39.7	53.4	<1	<5	85.2	27.4	11.5	--	--	<0.002	--	--	--	--	--	--	--	--
MW-25	5/21/2008	2190	194	<200	<1000	13300	3070	<200	--	--	0.0073 B	0.138 B	--	0.0076	--	134	0.0012 B	--	--
MW-25	9/3/2009	803	93.9 J	<200	<1000	18800	7970	<200	--	--	<0.0054	--	--	--	--	76.2	--	--	--
MW-25	9/2/2010	2810	193	<100	<500	12400	946	<100	--	220	0.26	--	--	--	282	307	--	--	0.0922
MW-26	5/20/2008	509	175	<100	111	9110	3880	<100	--	--	<0.01	0.0162 B	--	0.0043 B	--	478	--	--	--
MW-26	9/2/2009	264	<1	<1	<5	9.6	5.7	<1	--	--	<0.0054	--	--	--	--	20.3	--	--	--
MW-26	9/2/2010	773	77.4	<5	12.8	14600	4340	8	--	--	<0.002	--	--	--	--	70.4	--	--	--
MW-27	5/20/2008	--	--	--	--	--	--	--	--	--	2.5	--	--	--	--	--	--	--	--
MW-27	9/3/2009	--	--	--	--	--	--	--	--	--	5.95	--	--	--	--	--	--	--	--
MW-27	9/1/2010	--	--	--	--	--	--	--	--	--	4.81	--	--	--	--	--	--	--	--
MW-28	5/21/2008	--	--	--	--	--	--	--	--	--	0.0521	--	--	--	--	--	--	--	--
MW-28	9/3/2009	--	--	--	--	--	--	--	--	--	0.106	--	--	--	--	--	--	--	--
MW-28	9/1/2010	--	--	--	--	--	--	--	--	--	0.197	--	--	--	--	--	--	--	--
MW-29	8/12/2008	2	8.9	<1	3.5	10.6	4.8	<1	--	--	<0.01	--	--	<0.005	--	227	<0.01	--	--
MW-29	9/2/2009	0.65 J	19	1.9	<5	33.1	11.4	<1	--	--	<0.0054	--	--	<0.001	--	--	0.0029 B	--	--
MW-29	9/1/2010	<1	3.1	<1	<5	6.8	2.1	<1	--	--	0.0025	--	--	<0.001	--	--	0.0014	--	--
MW-30	8/12/2008	264	6930	<100	294	8330	3110	676	--	--	--	--	--	--	--	454	--	--	--
MW-30	9/3/2009	94.4 J	6750	120	<500	6520	2550	395	--	--	--	--	--	--	--	50.8	--	--	--
MW-30	8/31/2010	176	9100	<100	<500	26200	4200	771	--	--	--	--	--	--	--	32.5	--	--	--

Table 4 - Summary of Groundwater Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Analyte Units Fraction	1,1-DCE ug/l Total	cis-1,2-DCE ug/l Total	trans-1,2-DCE ug/l Total	Methylene Chloride ug/l Total	PCE ug/l Total	TCE ug/l Total	Vinyl Chloride ug/l Total	Antimony mg/l Total	Arsenic mg/l Dissolved	Arsenic mg/l Total	Barium mg/l Total	Beryllium mg/l Total	Cadmium mg/l Total	Calcium mg/l Dissolved	Calcium mg/l Total	Chromium (total) mg/l Total	Copper mg/l Total	Iron mg/l Dissolved
MW-31	8/11/2008	1580	82.4	<20	66.3	2540	74.3	<20	--	--	--	--	--	--	--	--	--	--	--
MW-31	9/2/2009	27	35.4	3.8 J	<25	350	8.9	<5	--	--	--	--	--	--	--	--	--	--	--
MW-31	8/31/2010	345	28.7	<5	<25	306	13.5	<5	--	--	--	--	--	--	--	--	--	--	--
MW-32	8/12/2008	<1	<1	<1	<5	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--
MW-32	8/13/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	321	--	--	--
MW-32	9/3/2009	<1	<1	<1	<5	<1	<1	<1	--	--	--	--	--	--	--	76.3	--	--	--
MW-32	9/1/2010	<1	<1	<1	<5	<1	<1	<1	--	--	--	--	--	--	--	77.6	--	--	--
MW-33	8/11/2008	<0.54	7.1	0.5	<5	3.5	2	<1	--	--	--	--	--	--	--	--	--	--	--
MW-33	8/12/2008	<1	7.1	0.5	<5	3.5	2	0.6	--	--	--	--	--	--	--	--	--	--	--
MW-33	9/2/2009	<1	5.5	<1	<5	2.8	2.1	<1	--	--	--	--	--	--	--	--	--	--	--
MW-33	8/31/2010	<1	9.3	0.57	<5	2.4	1.7	0.72	--	--	--	--	--	--	--	--	--	--	--
MW-34	8/11/2008	<10	344	<10	37.5	829	362	<10	--	--	0.097	--	--	--	--	1.21	--	--	--
MW-34	8/31/2010	3.9	138	2.5	<5	705	327	4.4	--	--	0.0899	--	--	--	--	--	--	--	--
MW-35	8/11/2008	<200	4850	<200	<1000	18700	8050	1310	--	--	--	--	--	--	--	--	--	--	--
MW-35	9/1/2009	<200	3590	<200	<1000	20900	9030	524	--	--	--	--	--	--	--	--	--	--	--
MW-35	8/31/2010	88.5	4110	<250	<1300	19000	10100	311	--	--	--	--	--	--	--	--	--	--	--
MW-36D	8/11/2008	26	11	<10	10.3	1280	297	<10	--	--	--	--	--	--	--	--	--	--	--
MW-36D	9/1/2009	13.8	18.9	<10	<50	1240	276	<10	--	--	--	--	--	--	--	--	--	--	--
MW-36D	8/31/2010	5.7	9.7	<10	<50	606	116	<10	--	--	--	--	--	--	--	--	--	--	--
PT-W1	11/12/2007	--	--	--	--	--	--	--	--	--	0.091	0.021	--	<0.005	--	33	<0.01	--	--
PT-W2	11/12/2007	--	--	--	--	--	--	--	--	--	0.36	<0.01	--	<0.005	--	5	<0.01	--	--
PT-W3	11/12/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PT-W4	11/12/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TW-5	12/15/2005	<1	<1	<1	--	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--
TW-6	12/15/2005	11.9	187	2.11	--	210	614	1.65	--	--	--	--	--	--	--	--	--	--	--
TW-6	3/7/2006	--	190	1.9	--	330	640	2	--	--	--	--	--	--	--	--	--	--	--
TW-7	12/15/2005	648	5180	52.3	--	15800	2460	785	--	--	--	--	--	--	--	--	--	--	--
TW-7	3/7/2006	--	21000	25	--	92000	11000	1600	--	--	--	--	--	--	--	--	--	--	--
TW-7	3/20/2006	600	12000	<250	6000	42000	5400	780	--	--	--	--	--	--	--	--	--	--	--
TW-8	12/15/2005	24.9	644	3.4	--	1160	1330	10.6	--	--	--	--	--	--	--	--	--	--	--
TW-8	3/7/2006	--	160	<1	--	120	120	<1	--	--	--	--	--	--	--	--	--	--	--
TW-9	12/15/2005	348	112	<1	--	33600	1510	8.35	--	--	--	--	--	--	--	--	--	--	--
TW-9	8/11/2008	--	--	--	--	--	--	--	--	--	0.0508	--	--	0.0105	--	--	<0.01	--	--
TW-9	9/1/2009	--	--	--	--	--	--	--	--	--	0.0528	--	--	0.0227	--	--	<0.002	--	--
TW-9	9/2/2009	1	10.1	1.6	1.4 J	101	18.9	<1	--	--	--	--	--	--	--	--	--	--	--
TW-9	8/30/2010	11.2	8.2	<2	5	100	13.3	<200	--	--	0.0488	--	--	0.0136	--	--	0.0049	--	--
TW-10	12/15/2005	13.7	76.8	<1	--	15200	195	4.1	--	--	--	--	--	--	--	--	--	--	--
TW-11	12/15/2005	55.2	148	3.15	--	37800	1330	17.9	--	--	--	--	--	--	--	--	--	--	--
TW-12	3/20/2006	7900	<50	<50	1100	5900	1400	<50	--	--	--	--	--	--	--	--	--	--	--
TW-12	8/12/2008	12200	3.5	<10	285	738	243	47.4	--	--	--	--	--	--	--	--	--	--	--
TW-12	9/2/2009	4770	3.1 J	<10	65.3	726	280	29.8	--	--	--	--	--	--	--	--	--	--	--
TW-12	9/1/2010	643	<10	<10	34.4	194	75.7	16.4	--	--	--	--	--	--	--	--	--	--	--
TW-13	3/20/2006	78	6000	<50	910	8100	4400	780	--	--	--	--	--	--	--	--	--	--	--
TW-13	8/12/2008	39.4	4190	<50	182	7930	1100	498	--	--	--	--	--	--	--	--	--	--	--
TW-13	9/2/2009	68.5 J	4530	<100	103 J	12800	1300	385	--	--	--	--	--	--	--	--	--	--	--
TW-13	8/31/2010	33.7	5990	<100	<500	6740	1300	606	--	--	--	--	--	--	--	--	--	--	--
TW-14	3/21/2006	55	160	<50	900	3300	1400	<50	--	--	--	--	--	--	--	--	--	--	--
TW-15	3/21/2006	270	210	<50	1600	29000	7100	<50	--	--	--	--	--	--	--	--	--	--	--
TW-16	3/21/2006	<100	160	<100	1500	7500	3300	<100	--	--	--	--	--	--	--	--	--	--	--
TW-17	3/21/2006	1000	8300	<100	1400	26000	5300	120	--	--	--	--	--	--	--	--	--	--	--
TW-18	3/21/2006	560	150	<100	2300	20000	3700	<100	--	--	--	--	--	--	--	--	--	--	--
TW-19	3/22/2006	1300	180	<100	4800	15000	8800	<100	--	--	--	--	--	--	--	--	--	--	--
TW-20	3/22/2006	3800	160	<100	<500	26000	15000	<100	--	--	--	--	--	--	--	--	--	--	--

Table 4 - Summary of Groundwater Analytical Data
 Colonial Terminals, Plant #2
 Savannah, Georgia

Sample ID	Analyte Units Fraction	1,1-DCE ug/l Total	cis-1,2-DCE ug/l Total	trans-1,2-DCE ug/l Total	Methylene Chloride ug/l Total	PCE ug/l Total	TCE ug/l Total	Vinyl Chloride ug/l Total	Antimony mg/l Total	Arsenic mg/l Dissolved	Arsenic mg/l Total	Barium mg/l Total	Beryllium mg/l Total	Cadmium mg/l Total	Calcium mg/l Dissolved	Calcium mg/l Total	Chromium (total) mg/l Total	Copper mg/l Total	Iron mg/l Dissolved
TW-21	3/23/2006	16	210	<10	<50	830	860	<10	--	--	--	--	--	--	--	--	--	--	--
TW-22	3/23/2006	36	200	<10	<50	940	1100	14	--	--	--	--	--	--	--	--	--	--	--
TW-23	3/23/2006	<100	6200	<100	<500	8000	8100	1100	--	--	--	--	--	--	--	--	--	--	--
TW-24	3/23/2006	18	1200	<10	<50	1200	9000	35	--	--	--	--	--	--	--	--	--	--	--
TW-25	5/26/2006	<50	250	<50	<250	23000	210	<50	--	--	--	--	--	--	--	--	--	--	--
TW-25	8/15/2007	<200	<200	<200	<1	31000	370	<200	--	--	--	--	--	--	--	--	--	--	--
TW-25	5/20/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	62.6	--	--	--
TW-25	5/21/2008	<500	301	<500	<2500	27100	350	<500	--	--	--	--	--	--	--	--	--	--	--
TW-25	9/1/2009	<100	279	<100	<500	17200	361	<100	--	--	<0.0054	--	--	<0.001	--	--	0.0045 B	--	--
TW-25	8/31/2010	<100	161	<100	<500	8840	212	<100	--	--	--	--	--	--	--	59.4	--	--	--
TW-26	5/26/2006	7.8	13	<1	<5	<5	<5	<1	--	--	--	--	--	--	--	--	--	--	--
TW-27	5/26/2006	<1	<1	<1	<5	6.9	<1	<1	--	--	--	--	--	--	--	--	--	--	--
TW-27	8/15/2007	<1	<1	<1	<5	2.9	<1	<1	--	--	--	--	--	--	--	--	--	--	--
TW-27	5/20/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.6	--	--	--
TW-27	5/21/2008	<1	<1	<1	<5	3.6	<1	<1	--	--	--	--	--	--	--	--	--	--	--
TW-27	9/1/2009	<1	0.89 J	<1	<5	35.1	2	<1	--	--	--	--	--	--	--	--	--	--	--
TW-27	8/31/2010	<1	<1	<1	<5	2.6	<1	<1	--	--	--	--	--	--	--	--	--	--	--
TW-28	5/26/2006	3	6.8	<1	<5	9.7	3.6	1.2	--	--	--	--	--	--	--	--	--	--	--
TW-29	4/25/2007	96	6100	<250	<250	4000	2800	410	--	--	--	--	--	--	--	--	--	--	--
TW-29	5/20/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	387	--	--	--
TW-29	5/21/2008	47.4	4360	<50	<250	990	1490	269	--	--	--	--	--	--	--	--	--	--	--
TW-29	9/1/2009	--	--	--	--	--	--	--	--	--	<0.0054	--	--	--	--	43.5	--	--	--
TW-29	9/28/2009	131	6650	25.8	31.3	52300	9190	461	--	--	--	--	--	--	--	--	--	--	--
TW-29	8/31/2010	166	3610	<500	<2500	40200	8160	616	--	--	--	--	--	--	39.1	39.7	--	--	23.1
TW-30	4/25/2007	<1	2.1	<1	<5	6.4	5	<1	--	--	--	--	--	--	--	--	--	--	--
TW-30	8/16/2007	<1	<1	<1	<5	1.4	1.7	<1	--	--	--	--	--	--	--	--	--	--	--
TW-31	4/25/2007	<1	64	<1	<5	6.5	7.4	25	--	--	--	--	--	--	--	--	--	--	--
TW-32	4/25/2007	<20	74	<20	<1	2300	51	<20	--	--	--	--	--	--	--	--	--	--	--

Notes:
 ug/L Micrograms per liter
 mg/L Milligrams per liter
 < Analyte was not detected at the laboratory detection limit indicated
 -- Analyte was not sampled for
 B - Analyte was detected in the method blank
 J - Estimated concentration

Table 4 - Summary of Groundwater Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Analyte Units Fraction	Iron mg/l Total	Lead mg/l Dissolved	Lead mg/l Total	Mercury mg/l Total	Nickel mg/l Total	Selenium mg/l Total	Silver mg/l Total	Thallium mg/l Total	Zinc mg/l Total	pH s.u. Total	Sulfate mg/l Total	TDS mg/l Total
GP-01-05 / TW-01	8/17/2005	--	--	--	--	--	--	--	--	--	--	--	--
GP-01-05 / TW-01	9/22/2005	--	--	--	--	--	--	--	--	--	--	--	--
GP-01-05 / TW-01	10/27/2005	--	--	--	--	--	--	--	--	--	--	--	--
GP-01-05 / TW-01	5/18/2007	--	--	<0.005	--	--	<0.01	<0.01	--	--	--	98	380
GP-01-05 / TW-01	6/19/2007	--	--	--	--	--	--	--	--	--	--	--	--
GP-01-05 / TW-01	7/16/2007	--	--	<0.005	--	--	<0.01	<0.01	--	--	--	100	310
GP-01-05 / TW-01	8/15/2007	--	--	--	--	--	--	--	--	--	--	--	--
GP-02-05 / TW-02	8/17/2005	--	--	--	--	--	--	--	--	--	--	--	--
GP-02-05 / TW-02	9/22/2005	--	--	--	--	--	--	--	--	--	--	--	--
GP-02-05 / TW-02	10/27/2005	--	--	--	--	--	--	--	--	--	--	--	--
GP-02-05 / TW-02	5/18/2007	--	--	--	--	--	--	--	--	--	--	--	--
GP-02-05 / TW-02	6/19/2007	--	--	--	--	--	--	--	--	--	--	--	--
GP-02-05 / TW-02	7/16/2007	--	--	--	--	--	--	--	--	--	--	--	--
GP-02-05 / TW-02	8/15/2007	--	--	--	--	--	--	--	--	--	--	--	--
GP-03-05 / TW-03	8/17/2005	--	--	--	--	--	--	--	--	--	--	--	--
GP-03-05 / TW-03	9/22/2005	--	--	--	--	--	--	--	--	--	--	--	--
GP-03-05 / TW-03	10/27/2005	--	--	--	--	--	--	--	--	--	--	--	--
GP-03-05 / TW-03	5/18/2007	--	--	4.9	--	--	<0.01	<0.01	--	--	--	380	1200
GP-03-05 / TW-03	6/19/2007	--	--	--	--	--	--	--	--	--	--	--	--
GP-03-05 / TW-03	7/16/2007	--	--	<0.005	--	--	<0.01	<0.01	--	--	--	220	340
GP-03-05 / TW-03	8/15/2007	--	--	--	--	--	--	--	--	--	--	--	--
GP-04-05 / TW-04	8/17/2005	--	--	--	--	--	--	--	--	--	--	--	--
GP-04-05 / TW-04	9/22/2005	--	--	--	--	--	--	--	--	--	--	--	--
GP-04-05 / TW-04	10/27/2005	--	--	--	--	--	--	--	--	--	--	--	--
GP-04-05 / TW-04	5/18/2007	--	--	<0.005	--	--	<0.01	<0.01	--	--	--	97	260
GP-04-05 / TW-04	6/19/2007	--	--	--	--	--	--	--	--	--	--	--	--
GP-04-05 / TW-04	7/16/2007	--	--	<0.005	--	--	<0.01	<0.01	--	--	--	97	220
GP-04-05 / TW-04	8/15/2007	--	--	--	--	--	--	--	--	--	--	--	--
GP-05-05	8/18/2005	--	--	--	--	--	--	--	--	--	--	--	--
GP-06-05	8/18/2005	--	--	--	--	--	--	--	--	--	--	--	--
GW-1	8/30/2001	--	--	0.0269	<0.0005	0.104	--	<0.01	<0.02	5.38	--	--	--
MW-1	8/1/1998	--	--	<0.01	<0.002	<0.01	--	<0.05	--	<1	--	--	--
MW-1	9/1/2002	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	9/2/2002	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	11/1/2003	--	--	<0.015	<0.005	<0.02	--	<0.01	<0.02	0.01	--	--	--
MW-1	2/5/2005	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	11/1/2007	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	11/4/2007	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	11/12/2007	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	8/13/2008	--	--	<0.005	--	--	--	--	--	--	--	--	--
MW-1	9/1/2009	8.85	--	<0.002	--	--	--	--	--	--	6	17.2	--
MW-1	8/30/2010	5.17	--	<0.001	--	--	--	--	--	--	6.37	5.4	--
MW-2	8/1/1998	--	--	<0.01	<0.002	<0.01	--	<0.05	--	<1	--	--	--
MW-2	9/1/2002	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	9/2/2002	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	11/1/2003	--	--	<0.015	<0.005	<0.02	--	<0.01	<0.02	0.59	--	--	--
MW-2	2/5/2005	--	--	--	--	--	--	--	--	--	--	--	--

Table 4 - Summary of Groundwater Analytical Data
 Colonial Terminals, Plant #2
 Savannah, Georgia

Sample ID	Analyte Units Fraction	Iron mg/l Total	Lead mg/l Dissolved	Lead mg/l Total	Mercury mg/l Total	Nickel mg/l Total	Selenium mg/l Total	Silver mg/l Total	Thallium mg/l Total	Zinc mg/l Total	pH s.u. Total	Sulfate mg/l Total	TDS mg/l Total
MW-3	8/1/1998	--	--	<0.01	<0.002	<0.018	--	<0.05	--	<1	--	--	--
MW-3	8/1/1998	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/5/2005	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	11/1/2007	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	11/4/2007	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	11/11/2007	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/1/2008	<0.3	--	0.0021 B	--	--	--	--	--	--	5.1	--	--
MW-3	8/13/2008	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	9/1/2009	0.167 B	<0.002	<0.002	--	--	--	--	--	--	5.8	1730	--
MW-3	8/30/2010	0.195	--	0.002	--	--	--	--	--	--	5.91	336	--
MW-4	8/1/1998	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/5/2005	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/1/2001	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	9/2/2002	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/4/2004	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/5/2005	--	--	--	--	--	--	--	--	--	--	--	--
MW-6R	8/12/2008	<0.3	--	<0.005	--	--	--	--	--	--	5.5	--	--
MW-6R	9/1/2009	0.0276 B	--	<0.002	--	--	--	--	--	--	5.4	1070	--
MW-6R	8/31/2010	0.139	--	<0.001	--	--	--	--	--	--	5.08	1120	--
MW-7	10/1/2001	--	--	<0.005	--	--	--	--	--	0.17	--	--	--
MW-7	11/1/2001	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/19/2001	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	9/1/2002	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	9/2/2002	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	9/30/2003	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/1/2003	--	--	<0.015	<0.005	<0.02	--	<0.01	<0.02	<0.01	--	--	--
MW-8	10/1/2001	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	11/1/2001	--	--	--	--	--	--	--	--	0.26	--	--	--
MW-8	11/19/2001	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	2/5/2005	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	5/20/2008	6.49	--	B	--	--	--	--	--	--	5.2	241	--
MW-8	9/1/2009	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	8/31/2010	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	10/1/2001	--	--	<0.005	--	--	--	--	--	0.061	--	--	--
MW-9	11/1/2001	--	--	<0.02	--	--	--	--	--	0.26	--	--	--
MW-9	9/19/2002	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	11/1/2003	--	--	<0.015	<0.005	<0.02	--	<0.01	<0.2	--	--	--	--
MW-9	2/1/2005	--	--	--	--	--	--	--	--	--	--	--	--
MW-9D	11/1/2001	--	--	<0.005	--	<0.04	--	--	--	0.4	--	--	--
MW-9D	9/29/2003	--	--	--	--	--	--	--	--	--	--	--	--
MW-9D	9/30/2003	--	--	--	--	--	--	--	--	--	--	--	--
MW-9D	10/1/2003	--	--	--	--	--	--	--	--	--	--	--	--
MW-9D	11/1/2003	--	--	<0.015	<0.005	<0.02	--	<0.01	<0.02	0.39	--	--	--
MW-9D	2/5/2005	--	--	--	--	--	--	--	--	--	--	--	--
MW-9D	10/5/2006	--	--	<0.015	--	--	--	--	--	--	--	--	--
MW-9D	8/12/2008	--	--	0.005	--	--	--	--	--	--	5.9	--	--
MW-9D	9/1/2009	--	--	--	--	--	--	--	--	--	--	--	--
MW-9D	9/2/2009	<0.023	--	<0.002	--	--	<0.0034	--	--	--	6	784	3010
MW-9D	9/1/2010	<0.035	--	<0.001	--	--	<0.002	--	--	--	6.51	933	2560

Table 4 - Summary of Groundwater Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Analyte Units Fraction	Iron mg/l Total	Lead mg/l Dissolved	Lead mg/l Total	Mercury mg/l Total	Nickel mg/l Total	Selenium mg/l Total	Silver mg/l Total	Thallium mg/l Total	Zinc mg/l Total	pH s.u. Total	Sulfate mg/l Total	TDS mg/l Total
MW-10	10/1/2001	--	--	<0.005	<0.005	--	--	--	--	0.066	--	--	--
MW-10	11/1/2001	--	--	<0.005	--	--	--	--	--	1.9	--	--	--
MW-10	9/1/2002	--	--	--	--	--	--	--	--	0.4	--	--	--
MW-10	9/29/2003	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	10/1/2003	--	--	<0.015	<0.005	<0.02	--	<0.01	<0.02	0.48	--	--	--
MW-11	11/1/2001	--	--	<0.005	<0.005	--	--	--	--	1.9	--	--	--
MW-11	9/1/2002	--	--	--	--	--	--	--	--	1.7	--	--	--
MW-11	9/29/2003	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	5/20/2008	<0.3	--	<0.005	--	--	<0.01	--	--	--	4.3	89.7	323
MW-11	9/2/2009	<0.023	--	<0.002	--	--	0.0042 B	--	--	--	5.3	213	1150
MW-11D	2/22/2005	--	--	--	--	--	--	--	--	--	--	--	--
MW-11R	2/1/2005	--	--	<0.015	--	--	--	--	--	--	--	--	--
MW-11R	2/22/2005	--	--	--	--	--	--	--	--	--	--	--	--
MW-11R	9/16/2005	--	--	--	--	--	--	--	--	--	--	--	--
MW-11R	9/22/2005	--	--	--	--	--	--	--	--	--	--	--	--
MW-11R	10/27/2005	--	--	--	--	--	--	--	--	--	--	--	--
MW-11R	5/18/2007	--	--	<0.005	--	--	<0.01	<0.01	--	--	--	68	320
MW-11R	6/6/2007	--	--	--	--	--	--	--	--	--	--	--	--
MW-11R	6/19/2007	--	--	--	--	--	--	--	--	--	--	--	--
MW-11R	7/3/2007	--	--	--	--	--	--	--	--	--	--	--	--
MW-11R	7/16/2007	--	--	0.0078	--	--	<0.01	<0.01	--	--	--	82	250
MW-11R	8/15/2007	--	--	--	--	--	--	--	--	--	--	--	--
MW-11R	9/2/2009	--	--	--	--	--	--	--	--	--	--	--	--
MW-11R	9/1/2010	<0.035	--	<0.001	--	--	<0.002	--	--	--	5.32	--	1050
MW-12	9/1/2002	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	9/2/2002	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	11/1/2003	--	--	<0.015	<0.005	<0.02	--	<0.01	<0.02	0.23	--	--	--
MW-12	2/1/2005	--	--	--	--	--	--	--	--	<0.18	--	--	--
MW-12	2/1/2005	--	--	<0.15	--	--	--	--	--	--	--	--	--
MW-12	2/22/2005	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	10/24/2007	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	11/1/2007	1.6	--	<0.005	--	--	<0.01	--	--	--	--	240	1000
MW-12	11/3/2007	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	11/4/2007	1.3	--	0.011	--	--	<0.04	--	--	--	--	1000	130000
MW-12	11/12/2007	<0.05	--	<0.005	--	--	<0.01	--	--	--	--	740	12000
MW-12	5/20/2008	<0.3	--	0.0025 B	--	--	--	--	--	--	5.8	1030	--
MW-12D	8/11/2008	--	--	--	--	--	--	--	--	--	--	--	--
MW-12D	9/2/2009	--	--	--	--	--	--	--	--	--	--	--	--
MW-12D	8/30/2010	--	--	--	--	--	--	--	--	--	--	--	--
MW-12D	8/31/2010	--	--	--	--	--	--	--	--	--	--	--	--
MW-12R	8/31/2010	<0.035	--	<0.001	--	--	--	--	--	--	5.61	--	--
MW-13	9/1/2002	--	--	<0.005	--	--	--	--	--	--	--	--	--
MW-13	9/2/2002	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	9/29/2003	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	11/1/2003	--	--	<0.15	<0.005	<0.02	--	<0.01	<0.02	<0.01	--	--	--
MW-13	2/5/2005	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	9/1/2002	--	--	--	<0.005	--	--	--	--	--	--	--	--
MW-14	9/2/2002	--	--	--	--	--	--	--	--	--	--	--	--
MW-16	2/5/2005	--	--	--	--	--	--	--	--	--	--	--	--
MW-16	5/20/2008	22.4	--	--	--	--	--	--	--	--	5.9	31.2	--
MW-16	9/2/2009	22.3	--	<0.002	--	--	0.0041 B	--	--	--	5.9	17.2	234
MW-16	9/1/2010	23.1	--	--	--	--	--	--	--	--	6.36	18.9	--

Table 4 - Summary of Groundwater Analytical Data
 Colonial Terminals, Plant #2
 Savannah, Georgia

Sample ID	Analyte Units Fraction	Iron mg/l Total	Lead mg/l Dissolved	Lead mg/l Total	Mercury mg/l Total	Nickel mg/l Total	Selenium mg/l Total	Silver mg/l Total	Thallium mg/l Total	Zinc mg/l Total	pH s.u. Total	Sulfate mg/l Total	TDS mg/l Total
MW-17	2/1/2005	--	--	--	--	--	--	--	--	--	--	--	--
MW-17	2/5/2005	--	--	--	--	--	--	--	--	--	--	--	--
MW-18	5/1/2005	--	--	<0.015	--	--	--	--	--	12	--	--	--
MW-18	6/1/2005	--	--	<0.015	--	--	--	--	--	--	--	--	--
MW-18	7/1/2005	--	--	<0.015	--	--	--	--	--	--	--	--	--
MW-18	8/1/2005	--	--	<0.015	--	--	--	--	--	--	--	--	--
MW-18	10/5/2006	--	--	<0.015	--	--	--	--	--	--	--	--	--
MW-18	5/20/2008	<300	--	0.0047 B	--	--	<0.01	--	--	--	5.9	1100	2320
MW-18	9/2/2009	--	--	<0.002	--	--	<0.0034	--	--	--	3.3	4080	5430
MW-18	9/1/2010	20.7	--	<0.01	--	--	<0.002	--	--	--	3.16	3670	4320
MW-19	5/1/2005	--	--	<0.015	--	--	--	--	--	--	--	--	--
MW-19	6/1/2005	--	--	<0.015	--	--	--	--	--	--	--	--	--
MW-19	7/1/2005	--	--	<0.015	--	--	--	--	--	--	--	--	--
MW-19	8/1/2005	--	--	<0.015	--	--	--	--	--	--	--	--	--
MW-19	10/6/2006	--	--	<0.015	--	--	--	--	--	--	--	--	--
MW-19	5/20/2008	972	--	<0.005	--	--	0.0071 B	--	--	--	3.2	2330	4820
MW-19	9/2/2009	133	--	<0.002	--	--	0.009 B	--	--	--	10.5	8060	7640
MW-19	9/1/2010	134	--	<0.001	--	--	<0.01	--	--	--	2.78	6080	7820
MW-20	10/24/2007	--	--	--	--	--	--	--	--	--	--	--	--
MW-20	5/20/2008	--	--	<0.0021	--	--	--	--	--	--	--	--	--
MW-20	9/1/2009	--	--	<0.002	--	--	--	--	--	--	--	--	--
MW-20	9/2/2009	--	--	--	--	--	--	--	--	--	--	--	--
MW-20	8/31/2010	--	--	<0.001	--	--	--	--	--	--	--	--	--
MW-21	5/21/2008	--	--	<0.05	--	--	--	--	--	--	--	--	--
MW-21	9/3/2009	--	--	<0.002	--	--	--	--	--	--	--	--	--
MW-21	9/1/2010	--	--	0.0077	--	--	--	--	--	--	--	--	--
MW-22	5/21/2008	--	--	0.116	--	--	--	--	--	--	--	--	--
MW-22	9/3/2009	--	--	<0.002	--	--	--	--	--	--	--	--	--
MW-22	9/1/2010	--	--	0.0249	--	--	--	--	--	--	--	--	--
MW-23	5/21/2008	--	--	0.0532	--	--	--	--	--	--	--	--	--
MW-23	9/3/2009	--	--	<0.002	--	--	--	--	--	--	--	--	--
MW-24	5/20/2008	--	--	--	--	--	--	--	--	--	--	--	--
MW-24	5/21/2008	--	--	0.0023 B	--	--	<0.01	--	--	--	--	--	3180
MW-24	9/3/2009	--	--	<0.002	--	--	--	--	--	--	--	--	--
MW-24	9/1/2010	--	--	<0.001	--	--	--	--	--	--	--	--	--
MW-25	5/21/2008	0.493	--	0.0058	--	--	<0.01	--	--	--	5.1	756	1570
MW-25	9/3/2009	0.125 B	--	<0.002	--	--	--	--	--	--	3.9	1050	--
MW-25	9/2/2010	2	0.937	1.36	--	--	--	1.36	--	--	7.05	1030	--
MW-26	5/20/2008	--	--	0.0033 B	--	--	<0.01	--	--	--	4.3	--	1690
MW-26	9/2/2009	0.152 B	--	<0.002	--	--	--	--	--	--	5.2	207	--
MW-26	9/2/2010	0.1	--	<0.001	--	--	--	--	--	--	3.89	1240	--
MW-27	5/20/2008	--	--	0.0085	--	--	--	--	--	--	--	--	--
MW-27	9/3/2009	--	--	0.0184	--	--	--	--	--	--	--	--	--
MW-27	9/1/2010	--	--	0.0151	--	--	--	--	--	--	--	--	--
MW-28	5/21/2008	--	--	0.0031 B	--	--	--	--	--	--	--	--	--
MW-28	9/3/2009	--	--	<0.002	--	--	--	--	--	--	--	--	--
MW-28	9/1/2010	--	--	0.0233	--	--	--	--	--	--	--	--	--
MW-29	8/12/2008	<0.3	--	<0.005	--	--	<0.01	--	--	--	5.5	76.2	320
MW-29	9/2/2009	--	--	<0.002	--	--	<0.002	--	--	--	--	149	718
MW-29	9/1/2010	--	--	<0.001	--	--	<0.002	--	--	--	--	97.6	588
MW-30	8/12/2008	0.407	--	--	--	--	--	--	--	--	5.1	--	--
MW-30	9/3/2009	0.18 B	--	--	--	--	--	--	--	--	5.4	79.4	--
MW-30	8/31/2010	<0.035	--	--	--	--	--	--	--	--	5.5	44.3	--

Table 4 - Summary of Groundwater Analytical Data
 Colonial Terminals, Plant #2
 Savannah, Georgia

Sample ID	Analyte Units Fraction	Iron mg/l Total	Lead mg/l Dissolved	Lead mg/l Total	Mercury mg/l Total	Nickel mg/l Total	Selenium mg/l Total	Silver mg/l Total	Thallium mg/l Total	Zinc mg/l Total	pH s.u. Total	Sulfate mg/l Total	TDS mg/l Total
MW-31	8/11/2008	--	--	--	--	--	--	--	--	--	--	--	--
MW-31	9/2/2009	--	--	--	--	--	--	--	--	--	--	--	--
MW-31	8/31/2010	--	--	--	--	--	--	--	--	--	--	--	--
MW-32	8/12/2008	--	--	--	--	--	--	--	--	--	--	--	--
MW-32	8/13/2008	231	--	--	--	--	--	--	--	--	4	--	--
MW-32	9/3/2009	37.9	--	--	--	--	--	--	--	--	3.9	539	--
MW-32	9/1/2010	41.5	--	--	--	--	--	--	--	--	3.81	654	--
MW-33	8/11/2008	--	--	--	--	--	--	--	--	--	--	--	--
MW-33	8/12/2008	--	--	--	--	--	--	--	--	--	--	--	--
MW-33	9/2/2009	--	--	--	--	--	--	--	--	--	--	--	--
MW-33	8/31/2010	--	--	--	--	--	--	--	--	--	--	--	--
MW-34	8/11/2008	0.589	--	<0.005	--	--	--	--	--	--	5.6	--	--
MW-34	8/31/2010	--	--	0.0021	--	--	--	--	--	--	--	--	--
MW-35	8/11/2008	--	--	--	--	--	--	--	--	--	--	--	--
MW-35	9/1/2009	--	--	--	--	--	--	--	--	--	--	--	--
MW-35	8/31/2010	--	--	--	--	--	--	--	--	--	--	--	--
MW-36D	8/11/2008	--	--	--	--	--	--	--	--	--	--	--	--
MW-36D	9/1/2009	--	--	--	--	--	--	--	--	--	--	--	--
MW-36D	8/31/2010	--	--	--	--	--	--	--	--	--	--	--	--
PT-W1	11/12/2007	1.4	--	<0.005	--	--	<0.01	--	--	--	--	1200	19000
PT-W2	11/12/2007	1.2	--	<0.005	--	--	<0.01	--	--	--	--	440	1300
PT-W3	11/12/2007	--	--	--	--	--	--	--	--	--	--	520	--
PT-W4	11/12/2007	--	--	--	--	--	--	--	--	--	--	630	--
TW-5	12/15/2005	--	--	--	--	--	--	--	--	--	--	--	--
TW-6	12/15/2005	--	--	--	--	--	--	--	--	--	--	--	--
TW-6	3/7/2006	--	--	--	--	--	--	--	--	--	--	--	--
TW-7	12/15/2005	--	--	--	--	--	--	--	--	--	--	--	--
TW-7	3/7/2006	--	--	--	--	--	--	--	--	--	--	--	--
TW-7	3/20/2006	--	--	--	--	--	--	--	--	--	--	--	--
TW-8	12/15/2005	--	--	--	--	--	--	--	--	--	--	--	--
TW-8	3/7/2006	--	--	--	--	--	--	--	--	--	--	--	--
TW-9	12/15/2005	--	--	--	--	--	--	--	--	--	--	--	--
TW-9	8/11/2008	--	--	0.0035 B	--	--	0.0068 B	--	--	--	--	0.691	1.4
TW-9	9/1/2009	--	--	0.0054	--	--	0.0103 B	--	--	--	--	1360	3200
TW-9	9/2/2009	--	--	--	--	--	--	--	--	--	--	--	--
TW-9	8/30/2010	--	--	0.0057	--	--	0.0042	--	--	--	--	1600	3260
TW-10	12/15/2005	--	--	--	--	--	--	--	--	--	--	--	--
TW-11	12/15/2005	--	--	--	--	--	--	--	--	--	--	--	--
TW-12	3/20/2006	--	--	--	--	--	--	--	--	--	--	--	--
TW-12	8/12/2008	--	--	--	--	--	--	--	--	--	--	--	--
TW-12	9/2/2009	--	--	--	--	--	--	--	--	--	--	--	--
TW-12	9/1/2010	--	--	--	--	--	--	--	--	--	--	--	--
TW-13	3/20/2006	--	--	--	--	--	--	--	--	--	--	--	--
TW-13	8/12/2008	--	--	--	--	--	--	--	--	--	--	--	--
TW-13	9/2/2009	--	--	--	--	--	--	--	--	--	--	--	--
TW-13	8/31/2010	--	--	--	--	--	--	--	--	--	--	--	--
TW-14	3/21/2006	--	--	--	--	--	--	--	--	--	--	--	--
TW-15	3/21/2006	--	--	--	--	--	--	--	--	--	--	--	--
TW-16	3/21/2006	--	--	--	--	--	--	--	--	--	--	--	--
TW-17	3/21/2006	--	--	--	--	--	--	--	--	--	--	--	--
TW-18	3/21/2006	--	--	--	--	--	--	--	--	--	--	--	--
TW-19	3/22/2006	--	--	--	--	--	--	--	--	--	--	--	--
TW-20	3/22/2006	--	--	--	--	--	--	--	--	--	--	--	--

Table 4 - Summary of Groundwater Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Analyte Units Fraction	Iron mg/l Total	Lead mg/l Dissolved	Lead mg/l Total	Mercury mg/l Total	Nickel mg/l Total	Selenium mg/l Total	Silver mg/l Total	Thallium mg/l Total	Zinc mg/l Total	pH s.u. Total	Sulfate mg/l Total	TDS mg/l Total
TW-21	3/23/2006	--	--	--	--	--	--	--	--	--	--	--	--
TW-22	3/23/2006	--	--	--	--	--	--	--	--	--	--	--	--
TW-23	3/23/2006	--	--	--	--	--	--	--	--	--	--	--	--
TW-24	3/23/2006	--	--	--	--	--	--	--	--	--	--	--	--
TW-25	5/26/2006	--	--	--	--	--	--	--	--	--	--	--	--
TW-25	8/15/2007	--	--	--	--	--	--	--	--	--	--	--	--
TW-25	5/20/2008	<300	--	--	--	--	--	--	--	--	5.8	152	--
TW-25	5/21/2008	--	--	--	--	--	--	--	--	--	--	--	--
TW-25	9/1/2009	--	--	<0.002	--	--	0.0045 B	<0.01	--	--	4	152	404
TW-25	8/31/2010	0.205	--	--	--	--	--	--	--	--	5.8	153	--
TW-26	5/26/2006	--	--	--	--	--	--	--	--	--	--	--	--
TW-27	5/26/2006	--	--	--	--	--	--	--	--	--	--	--	--
TW-27	8/15/2007	--	--	--	--	--	--	--	--	--	--	--	--
TW-27	5/20/2008	0.0218 B	--	--	--	--	--	--	--	--	4.3	50.1	--
TW-27	5/21/2008	--	--	--	--	--	--	--	--	--	--	--	--
TW-27	9/1/2009	--	--	--	--	--	--	--	--	--	--	--	--
TW-27	8/31/2010	--	--	--	--	--	--	--	--	--	--	--	--
TW-28	5/26/2006	--	--	--	--	--	--	--	--	--	--	--	--
TW-29	4/25/2007	--	--	--	--	--	--	--	--	--	--	--	--
TW-29	5/20/2008	23	--	--	--	--	--	--	--	--	5.4	88.2	--
TW-29	5/21/2008	--	--	--	--	--	--	--	--	--	--	--	--
TW-29	9/1/2009	2.8	--	<0.002	--	--	--	--	--	--	5.4	85.9	--
TW-29	9/28/2009	--	--	--	--	--	--	--	--	--	--	--	--
TW-29	8/31/2010	84	--	--	--	--	--	--	--	--	5.65	129	--
TW-30	4/25/2007	--	--	--	--	--	--	--	--	--	--	--	--
TW-30	8/16/2007	--	--	--	--	--	--	--	--	--	--	--	--
TW-31	4/25/2007	--	--	--	--	--	--	--	--	--	--	--	--
TW-32	4/25/2007	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

ug/L Micrograms per liter

mg/L Milligrams per liter

< Analyte was not detected at the laboratory detection limit indicated

-- Analyte was not sampled for

B - Analyte was detected in the method blank

J - Estimated concentration

**Table 5 - Summary of Surface Water Analytical Data
Colonial Terminals, Plant #2
Savannah, Georgia**

Sample ID	Date Sampled	1,1-DCE	cis 1,2-DCE	trans 1,2-DCE	Methylene Chloride	PCE	TCE	Vinyl Chloride	Arsenic	Chromium	Lead
	<i>Georgia ISWQS ¹:</i>	7,100	--	--	590	3.3	30	2.4	36	50	8.1
SW-1	4/25/2007	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	--	--	--
	8/16/2007	< 1.0	< 1.0	< 1.0	< 5.0	6.4	< 1.0	< 1.0	--	--	--
	10/24/2007	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	--	--	--
	9/17/2010	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
SW-2	4/25/2007	< 1.0	1.2	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	--	--	--
	8/16/2007	< 1.0	< 1.0	< 1.0	< 5.0	8.5	1.4	< 1.0	--	--	--
	10/24/2007	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	--	--	--
	9/17/2010	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
SW-3	4/25/2007	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	--	--	--
	8/16/2007	< 1.0	< 1.0	< 1.0	< 5.0	2.0	< 1.0	< 1.0	--	--	--
	10/24/2007	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	--	--	--
	9/17/2010	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0

Notes

(1) Georgia In-Stream Water Quality Standards (Georgia EPD, 2011)

Analytical results are in micrograms per liter (ug/L)

Concentrations in bold denote an exceedence of the Georgia ISWQS

< Analyte was not detected at the laboratory detection limit indicated

-- Analyte was not sampled for

**Table 6 - Summary of Type 4 Risk Reduction Standards
Colonial Terminals, Plant #2
Savannah, Georgia**

Detected Regulated Substance	Maximum Concentration Surface Soil (0-2') (mg/kg)	Maximum Concentration Subsurface Soil (2-10') (mg/kg)	Surface Soil (0-2') RRS (mg/kg)	Source	Subsurface Soil (2-10') RRS (mg/kg)	Source
1,1-Dichloroethene	0	3.8	250	Commercial/Industrial Worker	940	Construction Worker
cis-1,2-Dichloroethene	0	0.66	1,200	Construction Worker	2,400	Construction Worker
trans-1,2-Dichloroethene	0	0	240	Commercial/Industrial Worker	880	Construction Worker
Methylene Chloride	0.047	32	1,600	Commercial/Industrial Worker	3,600	Construction Worker
Tetrachloroethene	0	400	150	Commercial/Industrial Worker	550	Construction Worker
Trichloroethene	0.02	19	7.1	Commercial/Industrial Worker	26	Construction Worker
Vinyl Chloride	0	0.0086	5.1	Commercial/Industrial Worker	300	Construction Worker
2,4-Dinitrotoluene	0	460	180	Commercial/Industrial Worker	2,400	Construction Worker
Antimony	29	51	250	Construction Worker	480	Construction Worker
Arsenic	230	850	38	Commercial/Industrial Worker	360	Construction Worker
Barium	120	176	120,000	Construction Worker	230,000	Construction Worker
Beryllium	0.7	0	1,200	Construction Worker	2,400	Construction Worker
Cadmium	2.5	4.95	620	Construction Worker	1,200	Construction Worker
Chromium (total)	69	41.8	1,200	Commercial/Industrial Worker	1,200	Utility Worker
Copper	300	1,910	25,000	Construction Worker	48,000	Construction Worker
Lead	1,500	17,000	930	Commercial/Industrial Worker	4,800	Construction Worker
Mercury	2.2	15.4	62	Construction Worker	120	Construction Worker
Nickel	25	17.8	12,000	Construction Worker	24,000	Construction Worker
Silver	0	6.21	3,100	Construction Worker	6,000	Construction Worker
Thallium	0.29	0	10	Construction Worker	12	Construction Worker
Zinc	320	3,400	190,000	Construction Worker	360,000	Construction Worker

Notes:

mg/kg Milligrams per kilogram

Blue highlighting indicates that the maximum concentration exceeds the RRS.

Table 7 - Summary of Surface Soil Data and Exceedances of Type 4 RRS
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units Type 4 RRS ¹	1,1-DCE mg/kg 250	cis-1,2-DCE mg/kg 1200	MeCl mg/kg 1600	PCE mg/kg 150	trans-1,2-DCE mg/kg 240	TCE mg/kg 7.1	Vinyl Chloride mg/kg 5.1	Arsenic mg/kg 38	Lead mg/kg 930	Antimony mg/kg 250	Barium mg/kg 120,000	Beryllium mg/kg 1,200	Cadmium mg/kg 620
1042-W	11/27/2007	0	2	ft bgs	--	--	--	--	--	--	--	22	230	--	--	--	--
1054W	12/11/2007	0	2	ft bgs	--	--	--	--	--	--	--	34	350	--	--	--	--
1058W-S-R	12/12/2007	0	2	ft bgs	--	--	--	--	--	--	--	9	56	--	--	--	--
1065W	12/11/2007	0	2	ft bgs	--	--	--	--	--	--	--	19	160	--	--	--	--
1066W	10/25/2007	0	2	ft bgs	--	--	--	--	--	--	--	2.3	51	--	--	--	--
1072-W	11/27/2007	0	2	ft bgs	--	--	--	--	--	--	--	6.2	57	--	--	--	--
1079W	10/29/2007	0	2	ft bgs	--	--	--	--	--	--	--	9.3	82	--	--	--	--
1081W	10/25/2007	0	2	ft bgs	--	--	--	--	--	--	--	23	180	--	--	--	--
1086W-R	11/29/2007	0	2	ft bgs	--	--	--	--	--	--	--	25	120	--	--	--	--
1095W	10/30/2007	0	2	ft bgs	--	--	--	--	--	--	--	15	140	--	--	--	--
A1-W-N (R)	11/28/2007	0	2	ft bgs	--	--	--	--	--	--	--	4.7	31	--	--	--	--
A4-Wall South	11/19/2007	0	2	ft bgs	--	--	--	--	--	--	--	7	560	--	--	--	--
A5-W-S	11/27/2007	0	2	ft bgs	--	--	--	--	--	--	--	25	430	--	--	--	--
Area D SW-East	11/9/2010	0	2	ft bgs	--	--	--	--	--	--	--	2.14	5.64	--	--	--	--
Area D SW-North	11/11/2010	0	2	ft bgs	--	--	--	--	--	--	--	3.42	38.5	--	--	--	--
Area D SW-South	11/9/2010	0	2	ft bgs	--	--	--	--	--	--	--	< 2.12	3.2	--	--	--	--
Area D SW-West	11/9/2010	0	2	ft bgs	--	--	--	--	--	--	--	< 9.43	< 4.71	--	--	--	--
B2-SUP-WS1	12/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	11	220	--	--	--	--
B2-SUP-WS2	12/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	7.9	55	--	--	--	--
B2-SUP-WS3	12/5/2007	0	2	ft bgs	--	--	--	--	--	--	--	18	170	--	--	--	--
B2-SUP-WS4	12/5/2007	0	2	ft bgs	--	--	--	--	--	--	--	23	330	--	--	--	--
B2-SUP-WS5-R	12/12/2007	0	2	ft bgs	--	--	--	--	--	--	--	17	130	--	--	--	--
B2-SUP-WW	12/5/2007	0	2	ft bgs	--	--	--	--	--	--	--	31	310	--	--	--	--
B3-SUP-WS	12/5/2007	0	2	ft bgs	--	--	--	--	--	--	--	5.9	200	--	--	--	--
B3-SUP-WW	12/5/2007	0	2	ft bgs	--	--	--	--	--	--	--	8.4	100	--	--	--	--
D2R-W-E	11/17/2007	0	2	ft bgs	--	--	--	--	--	--	--	18	160	--	--	--	--
D-2-SW-E	11/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	230	110	--	--	--	--
D-2-SW-S	11/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	13	140	--	--	--	--
D-3-SW-N	11/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	22	180	--	--	--	--
D-3-SW-S	11/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	16	170	--	--	--	--
D-3-SW-W	11/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	6	92	--	--	--	--
D-Berm-2	11/3/2007	0	2	ft bgs	--	--	--	--	--	--	--	25	330	--	--	--	--
D-Berm-W-S	11/17/2007	0	2	ft bgs	--	--	--	--	--	--	--	31	300	--	--	--	--
D-HA-2	6/16/2010	0	2	ft bgs	--	--	--	--	--	--	--	17.4	107	--	--	--	--
D-HA-3	6/16/2010	0	2	ft bgs	--	--	--	--	--	--	--	6.7	52.1	--	--	--	--
F SUP NW	11/9/2007	0	2	ft bgs	--	--	--	--	--	--	--	24	410	--	--	--	--
F SUP SW	11/9/2007	0	2	ft bgs	--	--	--	--	--	--	--	13	150	--	--	--	--
F5-W-S	12/19/2007	0	2	ft bgs	--	--	--	--	--	--	--	6.5	74	--	--	--	--
F6-W-W	12/19/2007	0	2	ft bgs	--	--	--	--	--	--	--	30	240	--	--	--	--
G4-W-S	11/15/2007	0	2	ft bgs	--	--	--	--	--	--	--	24	370	--	--	--	--
G-NW-SW	11/6/2007	0	2	ft bgs	--	--	--	--	--	--	--	38	640	--	--	--	--
G-W-N	12/11/2007	0	2	ft bgs	--	--	--	--	--	--	--	29	540	--	--	--	--
I16	12/17/2007	0	2	ft bgs	--	--	--	--	--	--	--	37	330	--	--	--	--
I1-SW	11/12/2007	0	2	ft bgs	--	--	--	--	--	--	--	15	150	--	--	--	--

Table 7 - Summary of Surface Soil Data and Exceedances of Type 4 RRS
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units Type 4 RRS ¹	1,1-DCE mg/kg 250	cis-1,2-DCE mg/kg 1200	MeCl mg/kg 1600	PCE mg/kg 150	trans-1,2-DCE mg/kg 240	TCE mg/kg 7.1	Vinyl Chloride mg/kg 5.1	Arsenic mg/kg 38	Lead mg/kg 930	Antimony mg/kg 250	Barium mg/kg 120,000	Beryllium mg/kg 1,200	Cadmium mg/kg 620
I3-W-W	11/13/2007	0	2	ft bgs	--	--	--	--	--	--	--	23	220	--	--	--	--
I4-W-S	11/27/2007	0	2	ft bgs	--	--	--	--	--	--	--	4.8	57	--	--	--	--
I5-W-N (R)	11/28/2007	0	2	ft bgs	--	--	--	--	--	--	--	20	120	--	--	--	--
I6-W-W	11/13/2007	0	2	ft bgs	--	--	--	--	--	--	--	14	99	--	--	--	--
I7-W-S	11/14/2007	0	2	ft bgs	--	--	--	--	--	--	--	21	150	--	--	--	--
I7-W-W	11/14/2007	0	2	ft bgs	--	--	--	--	--	--	--	34	290	--	--	--	--
I8-W-S	11/28/2007	0	2	ft bgs	--	--	--	--	--	--	--	20	180	--	--	--	--
I8-W-W	11/28/2007	0	2	ft bgs	--	--	--	--	--	--	--	11	110	--	--	--	--
I9-W-N	11/28/2007	0	2	ft bgs	--	--	--	--	--	--	--	17	180	--	--	--	--
SB-1	8/25/1999	0.5	1.5	ft bgs	--	--	0.039	--	--	0.014	--	9	72	29	53	0.4	1.5
SB-2	8/25/1999	0.5	1.5	ft bgs	--	--	0.041	--	--	< 0.005	--	28	160	7.1	23	< 0.300	1.7
SB-4	8/25/1999	1	2	ft bgs	--	--	0.015	--	--	< 0.005	--	11	16	12	45	< 0.300	2.5
SB-5	8/25/1999	0.5	1.5	ft bgs	--	--	0.047	--	--	< 0.005	--	< 2.00	< 5.00	< 5.00	9.9	< 0.300	< 0.500
SB-6	8/25/1999	1	1.5	ft bgs	--	--	0.045	--	--	0.0074	--	4	60	9	48	< 0.300	1.3
SB-7	8/25/1999	0.5	1.5	ft bgs	--	--	< 0.01	--	--	< 0.005	--	2.3	23	< 5.00	7.2	< 0.300	< 0.500
SB-8	8/25/1999	0.5	1.5	ft bgs	--	--	0.019	--	--	< 0.005	--	89	230	19	62	< 0.300	1.9
SB-9	8/25/1999	0.5	1.5	ft bgs	--	--	0.015	--	--	< 0.005	--	13	430	14	42	< 0.300	2.3
SB-20	10/1/2001	0	2	ft bgs	< 0.0069	< 0.0069	< 0.0069	< 0.0069	< 0.0069	< 0.0069	< 0.014	8	160	1.7	--	--	< 0.570
SB-21	10/1/2001	0	2	ft bgs	< 0.0058	< 0.0058	< 0.0058	0.0044 E	< 0.0058	< 0.0058	< 0.012	--	--	--	--	--	--
SB-22	11/15/2001	0	1.5	ft bgs	--	--	--	--	--	--	--	34	390	3.3	120	0.7	0.51
SB-23	10/15/2001	0	2	ft bgs	--	--	--	--	--	--	--	< 5.90	36	< 1.00	12	--	--
SB-26	10/15/2001	0	2	ft bgs	--	--	--	--	--	--	--	15	770	--	63	--	--
SB-29	10/1/2001	0	2	ft bgs	--	--	< 0.0055	--	--	0.02	--	21	--	2.9	--	--	< 0.480
SB-31	11/15/2001	0	2	ft bgs	--	--	--	--	--	--	--	11	190	1.8	87	--	--
SB-32	11/15/2001	0	2	ft bgs	--	--	--	--	--	--	--	3.9	410	< 1.10	--	--	--
SB-34	9/15/2002	0	2	ft bgs	--	--	--	--	--	--	--	6.9	68	< 2.50	--	--	< 0.620
SB-48	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	21	230	--	--	--	--
SB-50	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	66	630	--	--	--	--
SB-52	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	54	840	--	--	--	--
SB-53	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	< 1.00	5.5	--	--	--	--
SB-54	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	4.2	12	--	--	--	--
SB-55	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	50	1500	--	--	--	--
SB-56	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	19	270	--	--	--	--
SB-57	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	1.4	9	--	--	--	--
SB-58	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	1	3.3	--	--	--	--
SL-BF-1	12/11/2007	1	1	ft bgs	--	--	--	--	--	--	--	7.7	50	--	--	--	--
SL-BF-2	12/11/2007	1	1	ft bgs	--	--	--	--	--	--	--	22	200	--	--	--	--
SL-BF-3	12/11/2007	1	1	ft bgs	--	--	--	--	--	--	--	2.5	25	--	--	--	--
A-SB-1	11/14/2006	0	2	ft bgs	--	--	--	--	--	--	--	88	390	--	--	--	--
A-SB-5	11/14/2006	0	2	ft bgs	--	--	--	--	--	--	--	37	550	--	--	--	--
B-SB-1	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	5.9	74	--	--	--	--
B-SB-10	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	13	140	--	--	--	--
B-SB-12	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	17	89	--	--	--	--
B-SB-13	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	29	200	--	--	--	--

Table 7 - Summary of Surface Soil Data and Exceedances of Type 4 RRS
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units Type 4 RRS ¹	1,1-DCE mg/kg 250	cis-1,2-DCE mg/kg 1200	MeCl mg/kg 1600	PCE mg/kg 150	trans-1,2-DCE mg/kg 240	TCE mg/kg 7.1	Vinyl Chloride mg/kg 5.1	Arsenic mg/kg 38	Lead mg/kg 930	Antimony mg/kg 250	Barium mg/kg 120,000	Beryllium mg/kg 1,200	Cadmium mg/kg 620
B-SB-18	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	64	720	--	--	--	--
B-SB-2	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	19	260	--	--	--	--
B-SB-20	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	51	240	--	--	--	--
B-SB-27	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	48	530	--	--	--	--
B-SB-3	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	23	640	--	--	--	--
B-SB-3 DUP	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	4.5	14	--	--	--	--
B-SB-42	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	14	150	--	--	--	--
B-SB-44	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	<3.7	21	--	--	--	--
B-SB-52	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	15	700	--	--	--	--
B-SB-53	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	11	160	--	--	--	--
B-SB-8	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	9.3	120	--	--	--	--
B-SB-9	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	37	440	--	--	--	--
C-SB-1	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	32	180	--	--	--	--
C-SB-4	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	7.5	35	--	--	--	--
C-SB-5	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	3.9	12	--	--	--	--
C-SB-6	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	9.5	75	--	--	--	--
D-SB-2	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	62	720	--	--	--	--
D-SB-8	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	76	630	--	--	--	--
E-SB-1	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	7.3	100	--	--	--	--
E-SB-4	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	27	460	--	--	--	--
F-SB-1	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	26	380	--	--	--	--
F-SB-7	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	25	230	--	--	--	--
F-SB-8	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	20	160	--	--	--	--
F-SB-9	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	28	440	--	--	--	--
F-SB-10	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	26	270	--	--	--	--
F-SB-20	11/14/2006	0	2	ft bgs	--	--	--	--	--	--	--	15	230	--	--	--	--
G-SB-5	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	<3.4	10	--	--	--	--
H-SB-1	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	<3.2	--	--	--	--	--
H-SB-5	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	3.5	--	--	--	--	--
H-SB-6	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	15	160	--	--	--	--
H-SB-7	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	20	250	--	--	--	--
I-SB-10	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	14	170	--	--	--	--
I-SB-3	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	16	120	--	--	--	--
I-SB-9	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	18	140	--	--	--	--
MW-2	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	<3.4	17	--	--	--	--

Notes:

(1) Type 4 Risk Reduction Standards for Surface Soil (ENVIRON, 2012)

Concentration exceeds the Type 4 RRS (ENVIRON, 2012)

mg/kg -- Milligrams per kilogram (parts per million)

ft bgs -- Feet below ground surface

< Analyte was not detected at the laboratory reporting limit indicated

-- Analyte was not sampled for

Table 7 - Summary of Surface Soil Data and Exceedances of Type 4 RRS
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units Type 4 RRS ¹	Chromium mg/kg 1200	Copper mg/kg 25000	Mercury mg/kg 62	Nickel mg/kg 12000	Silver mg/kg 3100	Thallium mg/kg 10	Zinc mg/kg 190000	2,4-Dinitrotoluene mg/kg 180
1042-W	11/27/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
1054W	12/11/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
1058W-S-R	12/12/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
1065W	12/11/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
1066W	10/25/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
1072-W	11/27/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
1079W	10/29/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
1081W	10/25/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
1086W-R	11/29/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
1095W	10/30/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
A1-W-N (R)	11/28/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
A4-Wall South	11/19/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
A5-W-S	11/27/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
Area D SW-East	11/9/2010	0	2	ft bgs	--	--	--	--	--	--	--	--
Area D SW-North	11/11/2010	0	2	ft bgs	--	--	--	--	--	--	--	--
Area D SW-South	11/9/2010	0	2	ft bgs	--	--	--	--	--	--	--	--
Area D SW-West	11/9/2010	0	2	ft bgs	--	--	--	--	--	--	--	--
B2-SUP-WS1	12/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
B2-SUP-WS2	12/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
B2-SUP-WS3	12/5/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
B2-SUP-WS4	12/5/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
B2-SUP-WS5-R	12/12/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
B2-SUP-WW	12/5/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
B3-SUP-WS	12/5/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
B3-SUP-WW	12/5/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
D2R-W-E	11/17/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
D-2-SW-E	11/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
D-2-SW-S	11/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
D-3-SW-N	11/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
D-3-SW-S	11/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
D-3-SW-W	11/4/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
D-Berm-2	11/3/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
D-Berm-W-S	11/17/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
D-HA-2	6/16/2010	0	2	ft bgs	--	--	--	--	--	--	--	--
D-HA-3	6/16/2010	0	2	ft bgs	--	--	--	--	--	--	--	--
F SUP NW	11/9/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
F SUP SW	11/9/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
F5-W-S	12/19/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
F6-W-W	12/19/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
G4-W-S	11/15/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
G-NW-SW	11/6/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
G-W-N	12/11/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
I16	12/17/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
I1-SW	11/12/2007	0	2	ft bgs	--	--	--	--	--	--	--	--

Table 7 - Summary of Surface Soil Data and Exceedances of Type 4 RRS
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units Type 4 RRS ¹	Chromium mg/kg 1200	Copper mg/kg 25000	Mercury mg/kg 62	Nickel mg/kg 12000	Silver mg/kg 3100	Thallium mg/kg 10	Zinc mg/kg 190000	2,4-Dinitrotoluene mg/kg 180
I3-W-W	11/13/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
I4-W-S	11/27/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
I5-W-N (R)	11/28/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
I6-W-W	11/13/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
I7-W-S	11/14/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
I7-W-W	11/14/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
I8-W-S	11/28/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
I8-W-W	11/28/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
I9-W-N	11/28/2007	0	2	ft bgs	--	--	--	--	--	--	--	--
SB-1	8/25/1999	0.5	1.5	ft bgs	21	29	< 0.500	< 1.00	< 5.00	--	110	< 1700
SB-2	8/25/1999	0.5	1.5	ft bgs	15	38	< 0.500	3.9	< 5.00	--	< 100	< 330
SB-4	8/25/1999	1	2	ft bgs	24	< 5.00	< 0.500	3.9	< 5.00	--	< 100	< 330
SB-5	8/25/1999	0.5	1.5	ft bgs	< 5.00	< 5.00	< 0.500	< 1.00	< 5.00	--	< 100	< 330
SB-6	8/25/1999	1	1.5	ft bgs	8.7	17	< 0.500	3	< 5.00	--	< 100	< 1700
SB-7	8/25/1999	0.5	1.5	ft bgs	< 5.00	9.5	< 0.500	< 1.00	< 5.00	--	< 100	< 330
SB-8	8/25/1999	0.5	1.5	ft bgs	9.6	42	0.52	< 1.00	< 5.00	--	< 100	< 330
SB-9	8/25/1999	0.5	1.5	ft bgs	69	300	2.2	7.5	< 5.00	--	260	< 330
SB-20	10/1/2001	0	2	ft bgs	11	38	0.21	< 4.60	--	--	90	--
SB-21	10/1/2001	0	2	ft bgs	--	--	--	--	--	--	--	--
SB-22	11/15/2001	0	1.5	ft bgs	25	190	0.39	25	< 1.00	0.29	320	--
SB-23	10/15/2001	0	2	ft bgs	2.9	5.1	0.24	< 4.10	--	--	--	< 380
SB-26	10/15/2001	0	2	ft bgs	--	65	0.94	--	--	--	97	--
SB-29	10/1/2001	0	2	ft bgs	16	--	--	--	--	--	--	--
SB-31	11/15/2001	0	2	ft bgs	9.6	71	1.2	< 4.00	< 0.990	--	--	--
SB-32	11/15/2001	0	2	ft bgs	--	--	0.17	--	--	--	--	--
SB-34	9/15/2002	0	2	ft bgs	8.4	12	--	< 5.00	--	--	74	--
SB-48	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	--
SB-50	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	--
SB-52	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	--
SB-53	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	--
SB-54	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	--
SB-55	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	--
SB-56	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	--
SB-57	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	--
SB-58	9/15/2003	0	2	ft bgs	--	--	--	--	--	--	--	--
SL-BF-1	12/11/2007	1	1	ft bgs	--	--	--	--	--	--	--	--
SL-BF-2	12/11/2007	1	1	ft bgs	--	--	--	--	--	--	--	--
SL-BF-3	12/11/2007	1	1	ft bgs	--	--	--	--	--	--	--	--
A-SB-1	11/14/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
A-SB-5	11/14/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
B-SB-1	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
B-SB-10	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
B-SB-12	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
B-SB-13	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--

**Table 7 - Summary of Surface Soil Data and Exceedances of Type 4 RRS
Colonial Terminals, Plant #2
Savannah, Georgia**

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units Type 4 RRS ¹	Chromium mg/kg 1200	Copper mg/kg 25000	Mercury mg/kg 62	Nickel mg/kg 12000	Silver mg/kg 3100	Thallium mg/kg 10	Zinc mg/kg 190000	2,4-Dinitrotoluene mg/kg 180
B-SB-18	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
B-SB-2	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
B-SB-20	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
B-SB-27	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
B-SB-3	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
B-SB-3 DUP	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
B-SB-42	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
B-SB-44	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
B-SB-52	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
B-SB-53	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
B-SB-8	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
B-SB-9	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
C-SB-1	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
C-SB-4	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
C-SB-5	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
C-SB-6	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
D-SB-2	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
D-SB-8	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
E-SB-1	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
E-SB-4	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
F-SB-1	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
F-SB-7	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
F-SB-8	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
F-SB-9	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
F-SB-10	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
F-SB-20	11/14/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
G-SB-5	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
H-SB-1	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
H-SB-5	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
H-SB-6	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
H-SB-7	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
I-SB-10	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
I-SB-3	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
I-SB-9	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--
MW-2	10/5/2006	0	2	ft bgs	--	--	--	--	--	--	--	--

Notes:

(1) Type 4 Risk Reduction Standards for Surface Soil (ENVIRON, 2012)

Concentration exceeds the Type 4 RRS (ENVIRON, 2012)

mg/kg -- Milligrams per kilogram (parts per million)

ft bgs -- Feet below ground surface

< Analyte was not detected at the laboratory reporting limit indicated

-- Analyte was not sampled for

Table 8 - Summary of Subsurface Soil Data and Exceedances of Type 4 RRS
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units Type 4 RRS ¹	1,1-DCE mg/kg 940	cis-1,2-DCE mg/kg 2,400	MeCl mg/kg 3,600	PCE mg/kg 550	trans-1,2-DCE mg/kg 880	TCE mg/kg 26	Vinyl Chloride mg/kg 300	Arsenic mg/kg 360	Lead mg/kg 4,800	Antimony mg/kg 480	Barium mg/kg 230,000
1020SW	11/6/2007	0	5	ft bgs	--	--	--	--	--	--	--	96	520	--	--
1021SW	11/6/2007	0	5	ft bgs	--	--	--	--	--	--	--	100	1500	--	--
1022W-R	12/13/2007	2	5	ft bgs	--	--	--	--	--	--	--	50	630	--	--
A1-Floor	11/16/2007	6	6	ft bgs	--	--	--	--	--	--	--	100	82	--	--
A2-Floor	11/16/2007	8	8	ft bgs	--	--	--	--	--	--	--	85	41	--	--
A3-Floor	11/19/2007	5	5	ft bgs	--	--	--	--	--	--	--	120	550	--	--
A4-Floor	11/20/2007	2	2	ft bgs	--	--	--	--	--	--	--	69	1000	--	--
A5-Floor	11/20/2007	5	5	ft bgs	--	--	--	--	--	--	--	280	670	--	--
Area D Bottom-Center	11/9/2010	2	5	ft bgs	--	--	--	--	--	--	--	75.2	69	--	--
Area D Bottom-NE	11/9/2010	2	5	ft bgs	--	--	--	--	--	--	--	31.4	72.9	--	--
Area D Bottom-NW	11/9/2010	2	5	ft bgs	--	--	--	--	--	--	--	65.6	60	--	--
Area D Bottom-SE	11/9/2010	2	5	ft bgs	--	--	--	--	--	--	--	32	70.4	--	--
Area D Bottom-SW	11/9/2010	2	5	ft bgs	--	--	--	--	--	--	--	67.9	55.6	--	--
C-Floor	11/17/2007	5.5	5.5	ft bgs	--	--	--	--	--	--	--	55	250	--	--
C-W-E	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	7.1	98	--	--
C-W-N	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	42	420	--	--
C-W-S	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	120	1300	--	--
C-W-W (R)	12/12/2007	2	5	ft bgs	--	--	--	--	--	--	--	20	13	--	--
D-1-Floor	11/2/2007	2.5	2.5	ft bgs	--	--	--	--	--	--	--	94	670	--	--
D-1-Floor-2	11/3/2007	2.5	2.5	ft bgs	--	--	--	--	--	--	--	100	810	--	--
D-1-Floor-3	11/3/2007	2	2	ft bgs	--	--	--	--	--	--	--	8.1	14	--	--
D-2-Floor	11/4/2007	2	2	ft bgs	--	--	--	--	--	--	--	92	95	--	--
D-3-Floor	11/4/2007	2	2	ft bgs	--	--	--	--	--	--	--	56	280	--	--
E-Floor	11/17/2007	5.5	5.5	ft bgs	--	--	--	--	--	--	--	18	260	--	--
E-W-E	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	4.3	10	--	--
E-W-N	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	65	1400	--	--
E-W-S	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	18	280	--	--
E-W-W	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	14	210	--	--
F1-Floor	12/6/2007	2	2	ft bgs	--	--	--	--	--	--	--	31	670	--	--
F2-Floor	12/6/2007	2	2	ft bgs	--	--	--	--	--	--	--	38	560	--	--
F3-Floor 1	12/6/2007	5	5	ft bgs	--	--	--	--	--	--	--	62	21	--	--
F3-Floor 2	12/6/2007	6	6	ft bgs	--	--	--	--	--	--	--	7.3	17	--	--
F3-W-E	12/6/2007	2	5	ft bgs	--	--	--	--	--	--	--	73	1000	--	--
F4-Floor	12/6/2007	8	8	ft bgs	--	--	--	--	--	--	--	5.6	11	--	--
F4-W-E	12/6/2007	5	8	ft bgs	--	--	--	--	--	--	--	21	30	--	--
F5-Floor	12/17/2007	8	8	ft bgs	--	--	--	--	--	--	--	9.7	14	--	--
F5-Floor 3	12/17/2007	5	5	ft bgs	--	--	--	--	--	--	--	3.9	14	--	--
F5-Floor-2	12/14/2007	5	5	ft bgs	--	--	--	--	--	--	--	6.2	82	--	--
F5-W-S	12/19/2007	2	5	ft bgs	--	--	--	--	--	--	--	74	1000	--	--
F5-W-S	12/19/2007	5	8	ft bgs	--	--	--	--	--	--	--	8.3	90	--	--
F6 Floor 1	12/19/2007	3	3	ft bgs	--	--	--	--	--	--	--	46	990	--	--
F6 Floor 2	12/19/2007	2	2	ft bgs	--	--	--	--	--	--	--	33	370	--	--

Table 8 - Summary of Subsurface Soil Data and Exceedances of Type 4 RRS
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units Type 4 RRS ¹	1,1-DCE mg/kg 940	cis-1,2-DCE mg/kg 2,400	MeCl mg/kg 3,600	PCE mg/kg 550	trans-1,2-DCE mg/kg 880	TCE mg/kg 26	Vinyl Chloride mg/kg 300	Arsenic mg/kg 360	Lead mg/kg 4,800	Antimony mg/kg 480	Barium mg/kg 230,000
F-Floor	11/6/2007	5	5	ft bgs	--	--	--	--	--	--	--	31	690	--	--
G2NE	10/29/2007	0	3	ft bgs	--	--	--	--	--	--	--	96	2100	--	--
G4 - Floor	11/6/2007	2	2	ft bgs	--	--	--	--	--	--	--	27	64	--	--
G5-Floor	11/15/2007	5	5	ft bgs	--	--	--	--	--	--	--	56	110	--	--
G5-W-E (R)	11/28/2007	2	5	ft bgs	--	--	--	--	--	--	--	18	77	--	--
G5-W-N	11/15/2007	2	5	ft bgs	--	--	--	--	--	--	--	43	25	--	--
G5-W-S	11/15/2007	2	5	ft bgs	--	--	--	--	--	--	--	34	76	--	--
G-Floor	10/30/2007	3	3	ft bgs	--	--	--	--	--	--	--	96	1000	--	--
G-N2-Floor	11/1/2007	3	3	ft bgs	--	--	--	--	--	--	--	43	1300	--	--
G-N-Floor	10/31/2007	3	3	ft bgs	--	--	--	--	--	--	--	100	1400	--	--
GP-07-01	4/23/2007	4	5	ft bgs	< 0.25	< 0.25	< 0.25	2.7	< 0.25	0.27	< 0.25	--	--	--	--
GP-07-02	4/23/2007	2	3	ft bgs	< 0.25	< 0.25	< 0.25	8.3	< 0.25	0.47	< 0.25	--	--	--	--
GP-07-03	4/24/2007	3	4	ft bgs	< 0.0053	< 0.0053	0.011	< 0.0053	< 0.0053	< 0.0053	< 0.0053	--	--	--	--
GP-07-04	4/24/2007	3	4	ft bgs	< 2.2	< 2.2	< 2.2	400	< 2.2	19	< 2.2	--	--	--	--
GP-07-05	4/24/2007	3	4	ft bgs	< 0.21	< 0.21	< 0.211	4.9	< 0.21	< 0.21	< 0.21	--	--	--	--
GP-07-06	4/25/2007	3	4	ft bgs	< 0.35	0.66	< 0.35	0.35	< 0.35	6.3	< 0.35	--	--	--	--
GP-07-07	4/26/2007	2	3	ft bgs	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	--	--	--	--
GP-07-08	8/15/2007	3	4	ft bgs	< 0.0054	< 0.0054	< 0.011	< 0.0054	< 0.0054	< 0.0054	< 0.0054	--	--	--	--
GP-07-09	8/15/2007	3	4	ft bgs	< 0.0051	< 0.0051	< 0.01	< 0.0051	< 0.0051	< 0.0051	< 0.0051	--	--	--	--
GP-07-10	8/15/2007	3	4	ft bgs	< 0.0047	0.037	< 0.0094	0.33	< 0.0047	0.018	< 0.0047	--	--	--	--
GP-07-11	8/15/2007	3	4	ft bgs	< 0.0041	0.022	< 0.0082	0.22	< 0.0041	0.0058	< 0.0041	--	--	--	--
GP-07-12	8/15/2007	3	4	ft bgs	< 0.0053	< 0.0053	< 0.011	0.031	< 0.0053	< 0.0053	< 0.0053	--	--	--	--
GP-07-13	8/15/2007	2	3	ft bgs	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	0.38	< 0.005	--	--	--	--
GP-07-14	8/15/2007	2	3	ft bgs	< 0.0074	< 0.0074	< 0.015	0.034	< 0.0074	< 0.0074	< 0.0074	--	--	--	--
GP-07-15	8/15/2007	2	3	ft bgs	< 0.0046	< 0.0046	< 0.0092	< 0.0046	< 0.0046	< 0.0046	< 0.0046	--	--	--	--
GP-07-16	8/15/2007	3	4	ft bgs	< 0.0042	< 0.0042	< 0.0084	0.27	< 0.0042	0.0091	< 0.0042	--	--	--	--
GP-07-17	8/16/2007	3	4	ft bgs	< 0.18	< 0.18	< 0.9	1.8	< 0.18	< 0.18	< 0.18	--	--	--	--
GP-07-18	8/16/2007	3	4	ft bgs	< 0.0043	0.0092	< 0.0086	< 0.0043	< 0.0043	< 0.0043	0.0086	--	--	--	--
GP-07-19	8/16/2007	3	4	ft bgs	< 0.19	< 0.19	< 0.95	3.1	< 0.19	0.57	< 0.19	--	--	--	--
GP-07-20	8/16/2007	2	3	ft bgs	< 0.18	< 0.18	< 0.9	5	< 0.18	0.92	< 0.18	--	--	--	--
GP-07-21	8/16/2007	3	4	ft bgs	< 0.0043	< 0.0043	< 0.0086	< 0.0043	< 0.0043	< 0.0043	< 0.0043	--	--	--	--
GP-07-22	8/16/2007	3	4	ft bgs	< 0.19	< 0.19	< 0.95	1.5	< 0.19	< 0.19	< 0.19	--	--	--	--
HA-07-02	10/22/2007	3	4	ft bgs	< 0.0073	< 0.0073	< 0.015	< 0.0073	< 0.0073	< 0.0073	< 0.0073	--	--	--	--
HA-07-04	10/22/2007	3	4	ft bgs	< 0.0066	< 0.0066	< 0.013	< 0.0066	< 0.0066	< 0.0066	< 0.0066	--	--	--	--
HA-07-06	10/23/2007	3	4	ft bgs	< 0.0049	0.0082	< 0.0098	0.066	< 0.0049	0.016	< 0.0049	--	--	--	--
HA-07-08	11/4/2007	4	6	ft bgs	< 0.0037	0.005	< 0.0074	0.011	< 0.0037	0.018	< 0.0037	--	--	--	--
I1-Floor	11/12/2007	2	2	ft bgs	--	--	--	--	--	--	--	5.7	45	--	--
I2-Floor	11/12/2007	2	2	ft bgs	--	--	--	--	--	--	--	25	220	--	--
I3-Floor	11/13/2007	2	2	ft bgs	--	--	--	--	--	--	--	24	210	--	--
I4-Floor	11/13/2007	5	5	ft bgs	--	--	--	--	--	--	--	200	700	--	--
I4-W-N	11/13/2007	2	5	ft bgs	--	--	--	--	--	--	--	33	350	--	--
I4-W-W	11/13/2007	2	5	ft bgs	--	--	--	--	--	--	--	22	43	--	--

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I5-Floor	11/13/2007	3	3	ft bgs	--	--	--	--	--	--	--	20	77	--	--
I6-Floor	11/13/2007	2	2	ft bgs	--	--	--	--	--	--	--	14	180	--	--
I7-Floor	11/14/2007	2	2	ft bgs	--	--	--	--	--	--	--	32	210	--	--
I8-Floor	11/28/2007	2	2	ft bgs	--	--	--	--	--	--	--	37	350	--	--
I9-Floor	11/28/2007	2	2	ft bgs	--	--	--	--	--	--	--	20	210	--	--
I-Floor-1	12/14/2007	8	8	ft bgs	< 0.0051	0.025	< 0.01	0.049	< 0.0051	0.015	< 0.0051	--	--	--	--
I VOC-Floor -2	12/14/2007	8	8	ft bgs	< 0.005	0.009	< 0.01	0.036	< 0.005	0.013	< 0.005	--	--	--	--
MW-18	5/15/2005	2	5	ft bgs	--	--	--	--	--	--	--	52	250	--	--
MW-18	5/15/2005	5	8	ft bgs	--	--	--	--	--	--	--	31	8.4	--	--
MW-19	5/15/2005	2	4	ft bgs	--	--	--	--	--	--	--	41	320	--	--
MW-19	5/15/2005	6	9	ft bgs	--	--	--	--	--	--	--	5	27	--	--
SB-1	8/25/1999	4.5	6.5	ft bgs	--	--	0.035	--	--	0.11	--	2.4	7.8	< 5.00	33
SB-2	8/25/1999	3.5	5.5	ft bgs	--	--	0.032	--	--	< 0.005	--	--	--	--	--
SB-2	8/25/1999	3.5	5.5	ft bgs	--	--	32	--	--	< 5.00	--	3.1	12	11	15
SB-3	8/25/1999	3.5	5.5	ft bgs	--	--	0.027	--	--	< 0.005	--	21	92	5	33
SB-4	8/25/1999	4	6	ft bgs	--	--	0.016	--	--	< 0.005	--	8.6	11	7	24
SB-4	8/25/1999	6	8	ft bgs	--	--	--	--	--	--	--	3.5	6.9	< 5.00	13
SB-5	8/25/1999	3.5	5.5	ft bgs	--	--	0.055	--	--	0.035	--	10	31	22	14
SB-6	8/25/1999	3.5	5.5	ft bgs	--	--	0.082	--	--	0.012	--	6.4	67	32	18
SB-7	8/25/1999	3.5	5.5	ft bgs	--	--	0.048	--	--	< 0.005	--	22	68	9.3	37
SB-8	8/25/1999	3.5	5.5	ft bgs	--	--	0.017	--	--	< 0.005	--	15	19	20	18
SB-9	8/25/1999	3.5	5.5	ft bgs	--	--	0.015	--	--	< 0.005	--	33	410	14	48
SB-20	10/1/2001	3	5	ft bgs	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	66	3400	12	50
SB-20	10/1/2001	6	8	ft bgs	--	--	--	--	--	--	--	2.2	11	< 2.20	13
SB-21	10/1/2001	3	5	ft bgs	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.013	< 5.70	--	< 1.20	--
SB-27	10/15/2001	3	5	ft bgs	--	--	--	--	--	--	--	5.7	50	< 1.20	--
SB-27	10/15/2001	6	8	ft bgs	--	--	--	--	--	--	--	4.8	--	--	--
SB-28	10/15/2001	3	5	ft bgs	--	--	--	--	--	--	--	850	2000	51	88
SB-28	10/15/2001	6	8	ft bgs	--	--	--	--	--	--	--	300	150	< 2.10	36
SB-29	10/1/2001	3	5	ft bgs	--	--	< 0.0065	--	--	0.3	--	23	--	< 2.20	--
SB-30	10/1/2001	3	5	ft bgs	< 0.0044	0.0034 E	< 0.0044	0.55 E	< 0.0044	0.008	< 0.0087	--	--	< 0.990	--
SB-30	10/1/2001	6	8	ft bgs	--	--	--	--	--	--	--	--	--	--	--
SB-32	11/15/2001	3	5	ft bgs	--	--	--	--	--	--	--	< 3.90	9.2	< 1.10	12
SB-33	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	99	--	--	--
SB-37	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	140	8600	--	--
SB-38	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	65	960	--	--
SB-38	9/15/2002	5	6.5	ft bgs	--	--	--	--	--	--	--	220	3700	--	--
SB-40	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	48	1100	--	--
SB-41	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	24	1700	--	--
SB-41	9/15/2002	5	7	ft bgs	--	--	--	--	--	--	--	67	27	--	--
SB-42	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	20	15	--	--
SB-42	9/15/2002	5.5	7	ft bgs	--	--	--	--	--	--	--	11	8.6	--	--

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SB-43	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	5.4	--	--	--
SB-43	9/15/2002	6	8	ft bgs	--	--	--	--	--	--	--	4.9	--	--	--
SB-44	9/15/2002	6	8	ft bgs	--	--	--	--	--	--	--	310	--	--	--
SB-45	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	9.6	140	--	--
SB-45	9/15/2002	6	8	ft bgs	--	--	--	--	--	--	--	< 0.970	2.8	--	--
SB-46	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	2.4	14	--	--
SB-46	9/15/2002	6	8	ft bgs	--	--	--	--	--	--	--	7.2	8	--	--
SB-47	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	34	--	--
SB-47	9/15/2002	6	8	ft bgs	--	--	--	--	--	--	--	--	6.1	--	--
SB-48	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	6.8	95	--	--
SB-49	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	37	18	--	--
SB-50	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	5.7	44	--	--
SB-52	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	12	28	--	--
SB-53	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	< 1.10	5.1	--	--
SB-54	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	3.8	13	--	--
SB-55	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	22	1400	--	--
SB-56	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	270	3200	--	--
SB-57	9/15/2003	5	7	ft bgs	--	--	--	--	--	--	--	1.1	4.6	--	--
SB-58	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	1.7	5.6	--	--
SB-59	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	31	230	--	--
SB-59	9/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	1.5	7.5	--	--
SB-60	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	75	580	--	--
SB-60	9/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	4.8	5.9	--	--
SB-61	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	96	95	--	--
SB-61	9/15/2003	5.5	7	ft bgs	--	--	--	--	--	--	--	5.9	20	--	--
SB-62	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	8.3	180	--	--
SB-63	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	< 1.00	2.9	--	--
SB-64	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	3.1	8.2	--	--
SB-65	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	4	11	--	--
SB-66	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	5.4	94	--	--
SB-67	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	6.4	53	--	--
SB-68	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	7.8	17	--	--
SB-68	11/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	7.5	10	--	--
SB-69	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	28	620	--	--
SB-69	11/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	13	11	--	--
SB-70	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	< 3.30	< 2.80	--	--
SB-70	11/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	8.8	11	--	--
SB-71	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	< 3.70	8.2	--	--
SB-72	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	12	5.2	--	--
SB-72	11/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	59	18	--	--
SB-73	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	15	250	--	--
SB-74	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	21	19	--	--

Table 8 - Summary of Subsurface Soil Data and Exceedances of Type 4 RRS
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units Type 4 RRS ¹	1,1-DCE mg/kg 940	cis-1,2-DCE mg/kg 2,400	MeCl mg/kg 3,600	PCE mg/kg 550	trans-1,2-DCE mg/kg 880	TCE mg/kg 26	Vinyl Chloride mg/kg 300	Arsenic mg/kg 360	Lead mg/kg 4,800	Antimony mg/kg 480	Barium mg/kg 230,000
SB-74	11/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	8.2	16	--	--
SL-BF-1	12/11/2007	4	4	ft bgs	--	--	--	--	--	--	--	1.7	9.7	--	--
SL-BF-2	12/11/2007	4	4	ft bgs	--	--	--	--	--	--	--	3.6	14	--	--
SL-BF-3	12/11/2007	4	4	ft bgs	--	--	--	--	--	--	--	1.7	5.1	--	--
Station 12+00	4/15/2000	6	8	ft bgs	--	--	--	--	--	--	--	619	3390	30.4	11.2
Station 13+50	8/15/2000	5.5	8	ft bgs	--	--	--	--	--	--	--	45.6	19	<5.0	NA
Station 15+00	4/11/2000	6	8	ft bgs	< 0.0045	< 0.0045	< 0.045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	10.3	68.9	<2.94	10.8
Station 16+50	8/15/2000	5.5	8	ft bgs	--	--	--	--	--	--	--	<4.99	<4.99	<4.99	NA
Station 18+00	4/12/2000	6	8	ft bgs	< 0.0042	< 0.0042	< 0.042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	34.9	1200	<4.89	176
Station 19+50	8/15/2000	5.5	8	ft bgs	--	--	--	--	--	--	--	81.5	732	9.83	NA
Station 21+00	4/15/2000	6	8	ft bgs	--	--	--	--	--	--	--	306	3000	<4.69	38.6
TW-10	12/14/2005	5	7	ft bgs	< 0.002	0.005	NA	2.11	< 0.002	0.018	< 0.002	--	--	--	--
TW-11	12/14/2005	5	7	ft bgs	0.026	0.003	NA	0.54	< 0.002	0.011	< 0.002	--	--	--	--
TW-12	3/20/2006	5	7	ft bgs	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	--	--	--	--
TW-13	3/21/2006	5	7	ft bgs	0.0069	0.11	< 0.0059	0.14	< 0.0059	0.025	< 0.0059	--	--	--	--
TW-14	3/21/2006	5	7	ft bgs	< 0.0054	< 0.0054	< 0.054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	--	--	--	--
TW-15	3/21/2006	5	7	ft bgs	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	--	--	--	--
TW-16	3/21/2006	5	7	ft bgs	< 0.0053	< 0.0053	< 0.0053	0.025	< 0.0053	0.022	< 0.0053	--	--	--	--
TW-17	3/21/2006	5	7	ft bgs	< 0.0055	0.018	< 0.0055	0.012	< 0.0055	< 0.0055	< 0.0055	--	--	--	--
TW-18	3/21/2006	5	7	ft bgs	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	--	--	--	--
TW-19	3/22/2006	5	7	ft bgs	< 0.0049	< 0.0049	< 0.049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	--	--	--	--
TW-20	3/22/2006	5	7	ft bgs	3.8	< 0.0051	0.029	0.0071	< 0.0051	0.0054	< 0.0051	--	--	--	--
TW-21	3/23/2006	5	7	ft bgs	< 0.0051	0.052	< 0.0051	0.011	< 0.0051	0.064	< 0.0051	--	--	--	--
TW-22	3/23/2006	5	7	ft bgs	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	--	--	--	--
TW-23	3/23/2006	5	7	ft bgs	< 0.0048	< 0.0048	< 0.0048	0.021	< 0.0048	0.011	< 0.0048	--	--	--	--
TW-24	3/23/2006	5	7	ft bgs	< 0.0053	0.053	< 0.0053	0.26	< 0.0053	0.12	< 0.0053	--	--	--	--
TW-25	5/25/2006	5	7	ft bgs	< 0.0044	0.0081	< 0.0044	0.052	< 0.0044	< 0.18	< 0.0044	--	--	--	--
TW-26	5/25/2006	5	7	ft bgs	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	--	--	--	--
TW-27	5/25/2006	5	7	ft bgs	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	--	--	--	--
TW-29	4/23/2007	4	5	ft bgs	< 0.2	< 0.2	< 0.2	4.4	< 0.2	0.32	< 0.2	--	--	--	--
TW-30	4/24/2007	3	4	ft bgs	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	--	--	--	--
TW-31	4/24/2007	4	5	ft bgs	< 0.23	0.54	< 0.23	2	< 0.23	0.65	< 0.23	--	--	--	--
TW-32	4/24/2007	3	4	ft bgs	< 0.0051	< 0.0051	< 0.0051	0.02	< 0.0051	< 0.0051	< 0.0051	--	--	--	--
TW-5	12/14/2005	5	7	ft bgs	< 0.002	< 0.002	NA	< 0.002	< 0.002	< 0.002	< 0.002	--	--	--	--
TW-6	12/14/2005	5	7	ft bgs	< 0.002	0.002	NA	0.004	< 0.002	0.002	< 0.002	--	--	--	--
TW-7	12/14/2005	5	7	ft bgs	0.006	0.048	NA	0.074	< 0.002	0.027	< 0.002	--	--	--	--
TW-8	12/14/2005	5	7	ft bgs	0.008	0.026	NA	0.057	< 0.002	0.02	< 0.002	--	--	--	--
TW-9	12/14/2005	5	7	ft bgs	0.01	< 0.002	NA	0.035	< 0.002	< 0.002	< 0.002	--	--	--	--
A-SB-1	11/14/2006	2	5	ft bgs	--	--	--	--	--	--	--	7.7	290	--	--
A-SB-5	11/14/2006	2	5	ft bgs	--	--	--	--	--	--	--	36	240	--	--
A-SB-6	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	35	600	--	--
B-SB-3	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	13	17	--	--

Table 8 - Summary of Subsurface Soil Data and Exceedances of Type 4 RRS
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units Type 4 RRS ¹	1,1-DCE mg/kg 940	cis-1,2-DCE mg/kg 2,400	MeCl mg/kg 3,600	PCE mg/kg 550	trans-1,2-DCE mg/kg 880	TCE mg/kg 26	Vinyl Chloride mg/kg 300	Arsenic mg/kg 360	Lead mg/kg 4,800	Antimony mg/kg 480	Barium mg/kg 230,000
B-SB-3 DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	4.5	14	--	--
B-SB-8	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	33	17	--	--
B-SB-8 DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	8.3	16	--	--
B-SB-13	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	14	150	--	--
B-SB-13DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	20	390	--	--
B-SB-18	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	19	200	--	--
B-SB-23	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	80	1,500	--	--
B-SB-23DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	95	2,100	--	--
B-SB-28	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	250	1,000	--	--
B-SB-28DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	160	750	--	--
B-SB-38	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	17	1,300	--	--
B-SB-38 DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	110	680	--	--
B-SB-48	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	260	13,000	--	--
B-SB-48 DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	600	17,000	--	--
B-SB-53	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	160	1,200	--	--
B-SB-53 DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	690	5,600	--	--
C-SB-1	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	160	94	--	--
C-SB-1	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	230	1,800	--	--
C-SB-3	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	110	800	--	--
C-SB-4	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	130	1,800	--	--
C-SB-4	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	18	160	--	--
C-SB-5	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	5.1	69	--	--
C-SB-5	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	9.7	150	--	--
C-SB-6	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	3.6	36	--	--
C-SB-6	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	<3.1	35	--	--
E-SB-1	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	54	660	--	--
E-SB-1	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	5.5	29	--	--
E-SB-3	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	<3.6	11	--	--
E-SB-4	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	37	540	--	--
E-SB-4	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	<3.9	24	--	--
F-SB-1	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	120	1,000	--	--
F-SB-7	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	22	650	--	--
F-SB-8	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	11	310	--	--
F-SB-10	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	81	1,500	--	--
F-SB-13	11/14/2006	5	8	ft bgs	--	--	--	--	--	--	--	64	370	--	--
F-SB-14	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	46	440	--	--
F-SB-15	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	21	440	--	--
F-SB-16	11/14/2006	5	8	ft bgs	--	--	--	--	--	--	--	21	100	--	--
F-SB-18	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	46	1,100	--	--
F-SB-20	11/14/2006	2	5	ft bgs	--	--	--	--	--	--	--	63	840	--	--
G-SB-1	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	3.9	17	--	--
G-SB-3	11/14/2006	5	8	ft bgs	--	--	--	--	--	--	--	3.8	15	--	--

**Table 8 - Summary of Subsurface Soil Data and Exceedances of Type 4 RRS
Colonial Terminals, Plant #2
Savannah, Georgia**

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units Type 4 RRS ¹	1,1-DCE mg/kg 940	cis-1,2-DCE mg/kg 2,400	MeCl mg/kg 3,600	PCE mg/kg 550	trans-1,2-DCE mg/kg 880	TCE mg/kg 26	Vinyl Chloride mg/kg 300	Arsenic mg/kg 360	Lead mg/kg 4,800	Antimony mg/kg 480	Barium mg/kg 230,000
G-SB-4	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	120	2,100	--	--
G-SB-5	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	12	15	--	--
G-SB-6	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	<3.4	12	--	--
G-SB-7	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	62	830	--	--
G-SB-8	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	140	460	--	--
G-SB-9	11/14/2006	2	5	ft bgs	--	--	--	--	--	--	--	240	340	--	--
G-SB-10	11/14/2006	2	5	ft bgs	--	--	--	--	--	--	--	30	34	--	--
I-SB-1	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	63.6	12	--	--
I-SB-2	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	6	67	--	--
I-SB-3	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	29	260	--	--
I-SB-4	10/5/2006	2	4	ft bgs	--	--	--	--	--	--	--	6.2	38	--	--
I-SB-5	10/5/2006	2	4	ft bgs	--	--	--	--	--	--	--	25	260	--	--
I-SB-8	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	15	660	--	--
I-SB-9	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	4.9	11	--	--
I-SB-10	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	15	42	--	--

Notes:

(1) Type 4 Risk Reduction Standards for Surface Soil (ENVIRON, 2012)

Subsurface soil samples from below 10 ft bgs are not included

Concentration exceeds the Type 4 RRS (ENVIRON, 2012)

mg/kg -- Milligrams per kilogram (parts per million)

ft bgs -- Feet below ground surface

< Analyte was not detected at the laboratory reporting limit indicated

-- Analyte was not sampled for

Table 8 - Summary of Subsurface Soil Data and Exceedances of Type 4 RRS
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units Type 4 RRS ¹	Beryllium mg/kg 2,400	Cadmium mg/kg 1,200	Chromium mg/kg 1,200	Copper mg/kg 48,000	Mercury mg/kg 120	Nickel mg/kg 24,000	Silver mg/kg 6,000	Thallium mg/kg 12	Zinc mg/kg 360,000	2,4-Dinitrotoluene mg/kg 2,400
1020SW	11/6/2007	0	5	ft bgs	--	--	--	--	--	--	--	--	--	--
1021SW	11/6/2007	0	5	ft bgs	--	--	--	--	--	--	--	--	--	--
1022W-R	12/13/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
A1-Floor	11/16/2007	6	6	ft bgs	--	--	--	--	--	--	--	--	--	--
A2-Floor	11/16/2007	8	8	ft bgs	--	--	--	--	--	--	--	--	--	--
A3-Floor	11/19/2007	5	5	ft bgs	--	--	--	--	--	--	--	--	--	--
A4-Floor	11/20/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--	--
A5-Floor	11/20/2007	5	5	ft bgs	--	--	--	--	--	--	--	--	--	--
Area D Bottom-Center	11/9/2010	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
Area D Bottom-NE	11/9/2010	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
Area D Bottom-NW	11/9/2010	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
Area D Bottom-SE	11/9/2010	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
Area D Bottom-SW	11/9/2010	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
C-Floor	11/17/2007	5.5	5.5	ft bgs	--	--	--	--	--	--	--	--	--	--
C-W-E	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
C-W-N	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
C-W-S	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
C-W-W (R)	12/12/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
D-1-Floor	11/2/2007	2.5	2.5	ft bgs	--	--	--	--	--	--	--	--	--	--
D-1-Floor-2	11/3/2007	2.5	2.5	ft bgs	--	--	--	--	--	--	--	--	--	--
D-1-Floor-3	11/3/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--	--
D-2-Floor	11/4/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--	--
D-3-Floor	11/4/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--	--
E-Floor	11/17/2007	5.5	5.5	ft bgs	--	--	--	--	--	--	--	--	--	--
E-W-E	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
E-W-N	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
E-W-S	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
E-W-W	11/17/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
F1-Floor	12/6/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--	--
F2-Floor	12/6/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--	--
F3-Floor 1	12/6/2007	5	5	ft bgs	--	--	--	--	--	--	--	--	--	--
F3-Floor 2	12/6/2007	6	6	ft bgs	--	--	--	--	--	--	--	--	--	--
F3-W-E	12/6/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
F4-Floor	12/6/2007	8	8	ft bgs	--	--	--	--	--	--	--	--	--	--
F4-W-E	12/6/2007	5	8	ft bgs	--	--	--	--	--	--	--	--	--	--
F5-Floor	12/17/2007	8	8	ft bgs	--	--	--	--	--	--	--	--	--	--
F5-Floor 3	12/17/2007	5	5	ft bgs	--	--	--	--	--	--	--	--	--	--
F5-Floor-2	12/14/2007	5	5	ft bgs	--	--	--	--	--	--	--	--	--	--
F5-W-S	12/19/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
F5-W-S	12/19/2007	5	8	ft bgs	--	--	--	--	--	--	--	--	--	--
F6 Floor 1	12/19/2007	3	3	ft bgs	--	--	--	--	--	--	--	--	--	--
F6 Floor 2	12/19/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--	--

Table 8 - Summary of Subsurface Soil Data and Exceedances of Type 4 RRS
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units Type 4 RRS ¹	Beryllium mg/kg 2,400	Cadmium mg/kg 1,200	Chromium mg/kg 1,200	Copper mg/kg 48,000	Mercury mg/kg 120	Nickel mg/kg 24,000	Silver mg/kg 6,000	Thallium mg/kg 12	Zinc mg/kg 360,000	2,4-Dinitrotoluene mg/kg 2,400
F-Floor	11/6/2007	5	5	ft bgs	--	--	--	--	--	--	--	--	--	--
G2NE	10/29/2007	0	3	ft bgs	--	--	--	--	--	--	--	--	--	--
G4 - Floor	11/6/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--	--
G5-Floor	11/15/2007	5	5	ft bgs	--	--	--	--	--	--	--	--	--	--
G5-W-E (R)	11/28/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
G5-W-N	11/15/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
G5-W-S	11/15/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
G-Floor	10/30/2007	3	3	ft bgs	--	--	--	--	--	--	--	--	--	--
G-N2-Floor	11/1/2007	3	3	ft bgs	--	--	--	--	--	--	--	--	--	--
G-N-Floor	10/31/2007	3	3	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-01	4/23/2007	4	5	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-02	4/23/2007	2	3	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-03	4/24/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-04	4/24/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-05	4/24/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-06	4/25/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-07	4/26/2007	2	3	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-08	8/15/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-09	8/15/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-10	8/15/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-11	8/15/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-12	8/15/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-13	8/15/2007	2	3	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-14	8/15/2007	2	3	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-15	8/15/2007	2	3	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-16	8/15/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-17	8/16/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-18	8/16/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-19	8/16/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-20	8/16/2007	2	3	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-21	8/16/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--	--
GP-07-22	8/16/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--	--
HA-07-02	10/22/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--	--
HA-07-04	10/22/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--	--
HA-07-06	10/23/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--	--
HA-07-08	11/4/2007	4	6	ft bgs	--	--	--	--	--	--	--	--	--	--
I1-Floor	11/12/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--	--
I2-Floor	11/12/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--	--
I3-Floor	11/13/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--	--
I4-Floor	11/13/2007	5	5	ft bgs	--	--	--	--	--	--	--	--	--	--
I4-W-N	11/13/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
I4-W-W	11/13/2007	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--

Table 8 - Summary of Subsurface Soil Data and Exceedances of Type 4 RRS
Colonial Terminals, Plant #2
Savannah, Georgia

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units Type 4 RRS ¹	Beryllium mg/kg 2,400	Cadmium mg/kg 1,200	Chromium mg/kg 1,200	Copper mg/kg 48,000	Mercury mg/kg 120	Nickel mg/kg 24,000	Silver mg/kg 6,000	Thallium mg/kg 12	Zinc mg/kg 360,000	2,4-Dinitrotoluene mg/kg 2,400
I5-Floor	11/13/2007	3	3	ft bgs	--	--	--	--	--	--	--	--	--	--
I6-Floor	11/13/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--	--
I7-Floor	11/14/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--	--
I8-Floor	11/28/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--	--
I9-Floor	11/28/2007	2	2	ft bgs	--	--	--	--	--	--	--	--	--	--
I-Floor-1	12/14/2007	8	8	ft bgs	--	--	--	--	--	--	--	--	--	--
I VOC-Floor -2	12/14/2007	8	8	ft bgs	--	--	--	--	--	--	--	--	--	--
MW-18	5/15/2005	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
MW-18	5/15/2005	5	8	ft bgs	--	--	--	--	--	--	--	--	--	--
MW-19	5/15/2005	2	4	ft bgs	--	--	--	--	--	--	--	--	--	--
MW-19	5/15/2005	6	9	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-1	8/25/1999	4.5	6.5	ft bgs	< 0.300	0.69	5.2	6.9	< 0.500	1.2	< 5.00	--	< 100	< 330
SB-2	8/25/1999	3.5	5.5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-2	8/25/1999	3.5	5.5	ft bgs	< 0.300	1.2	11	18	< 0.500	2.5	< 5.00	--	< 100	< 330
SB-3	8/25/1999	3.5	5.5	ft bgs	< 0.300	0.52	< 5.00	870	< 0.500	< 1.00	< 5.00	--	< 100	< 330
SB-4	8/25/1999	4	6	ft bgs	< 0.300	1.1	11	27	< 0.500	2.3	< 5.00	--	< 100	< 330
SB-4	8/25/1999	6	8	ft bgs	< 0.300	< 0.500	< 5.00	38	--	< 1.00	< 5.00	--	--	--
SB-5	8/25/1999	3.5	5.5	ft bgs	< 0.300	0.77	8.2	5.9	< 0.500	1.4	< 5.00	--	< 100	< 330
SB-6	8/25/1999	3.5	5.5	ft bgs	< 0.300	< 0.500	5.5	9.2	< 0.500	< 1.00	< 5.00	--	< 100	< 330
SB-7	8/25/1999	3.5	5.5	ft bgs	< 0.300	0.56	< 5.00	12	< 0.500	< 1.00	< 5.00	--	< 100	460
SB-8	8/25/1999	3.5	5.5	ft bgs	< 0.300	3.6	27	26	< 0.500	4.5	< 5.00	--	< 100	< 330
SB-9	8/25/1999	3.5	5.5	ft bgs	< 0.300	1.5	24	120	1.7	5.1	< 5.00	--	120	< 330
SB-20	10/1/2001	3	5	ft bgs	--	--	--	140	6.7	< 4.80	--	--	310	--
SB-20	10/1/2001	6	8	ft bgs	--	--	--	3.8	< 0.0240	--	--	--	400	--
SB-21	10/1/2001	3	5	ft bgs	--	< 0.600	--	--	--	--	--	--	--	--
SB-27	10/15/2001	3	5	ft bgs	--	--	23	41	0.037	--	< 1.20	--	46	--
SB-27	10/15/2001	6	8	ft bgs	--	--	15	37	--	--	--	--	43	--
SB-28	10/15/2001	3	5	ft bgs	--	--	--	530	7.8	6.3	1.2	--	1400	< 380
SB-28	10/15/2001	6	8	ft bgs	--	--	--	400	0.058	< 4.30	--	--	230	< 380
SB-29	10/1/2001	3	5	ft bgs	--	< 0.540	4.6	--	--	--	--	--	--	--
SB-30	10/1/2001	3	5	ft bgs	--	< 0.490	--	59	--	--	--	--	--	--
SB-30	10/1/2001	6	8	ft bgs	--	--	--	39	--	--	--	--	--	--
SB-32	11/15/2001	3	5	ft bgs	--	--	--	3.5	0.085	--	--	--	12	--
SB-33	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-37	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-38	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-38	9/15/2002	5	6.5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-40	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-41	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-41	9/15/2002	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-42	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-42	9/15/2002	5.5	7	ft bgs	--	--	--	--	--	--	--	--	--	--

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Colonial Terminals, Plant #2
Savannah, Georgia**

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units Type 4 RRS ¹	Beryllium mg/kg 2,400	Cadmium mg/kg 1,200	Chromium mg/kg 1,200	Copper mg/kg 48,000	Mercury mg/kg 120	Nickel mg/kg 24,000	Silver mg/kg 6,000	Thallium mg/kg 12	Zinc mg/kg 360,000	2,4-Dinitrotoluene mg/kg 2,400
SB-43	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-43	9/15/2002	6	8	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-44	9/15/2002	6	8	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-45	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-45	9/15/2002	6	8	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-46	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-46	9/15/2002	6	8	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-47	9/15/2002	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-47	9/15/2002	6	8	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-48	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-49	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-50	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-52	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-53	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-54	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-55	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-56	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-57	9/15/2003	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-58	9/15/2003	4	6	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-59	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-59	9/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-60	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-60	9/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-61	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-61	9/15/2003	5.5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-62	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-63	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-64	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-65	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-66	9/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-67	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-68	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-68	11/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-69	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-69	11/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-70	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-70	11/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-71	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-72	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-72	11/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-73	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--
SB-74	11/15/2003	3	5	ft bgs	--	--	--	--	--	--	--	--	--	--

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Savannah, Georgia**

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units Type 4 RRS ¹	Beryllium mg/kg 2,400	Cadmium mg/kg 1,200	Chromium mg/kg 1,200	Copper mg/kg 48,000	Mercury mg/kg 120	Nickel mg/kg 24,000	Silver mg/kg 6,000	Thallium mg/kg 12	Zinc mg/kg 360,000	2,4-Dinitrotoluene mg/kg 2,400
SB-74	11/15/2003	6	8	ft bgs	--	--	--	--	--	--	--	--	--	--
SL-BF-1	12/11/2007	4	4	ft bgs	--	--	--	--	--	--	--	--	--	--
SL-BF-2	12/11/2007	4	4	ft bgs	--	--	--	--	--	--	--	--	--	--
SL-BF-3	12/11/2007	4	4	ft bgs	--	--	--	--	--	--	--	--	--	--
Station 12+00	4/15/2000	6	8	ft bgs	<1.34	<1.34	8.74	43.3	6.18	<2.68	<1.34	NA	34.2	--
Station 13+50	8/15/2000	5.5	8	ft bgs	NA	NA	NA	260	0.22	NA	<2.5	<5.0	68.3	--
Station 15+00	4/11/2000	6	8	ft bgs	<1.59	<1.59	8.38	24	2.2	17.8	<1.59	NA	17.8	--
Station 16+50	8/15/2000	5.5	8	ft bgs	NA	NA	NA	6.09	<1.0	NA	<2.49	<4.99	14.5	--
Station 18+00	4/12/2000	6	8	ft bgs	<2.19	<2.19	41.8	637	15.4	16.1	2.47	NA	664	--
Station 19+50	8/15/2000	5.5	8	ft bgs	NA	NA	NA	1910	0.13	NA	<2.49	<4.99	1230	--
Station 21+00	4/15/2000	6	8	ft bgs	<1.73	4.95	6.75	1380	4.11	7.37	6.21	NA	3400	--
TW-10	12/14/2005	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-11	12/14/2005	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-12	3/20/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-13	3/21/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-14	3/21/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-15	3/21/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-16	3/21/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-17	3/21/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-18	3/21/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-19	3/22/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-20	3/22/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-21	3/23/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-22	3/23/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-23	3/23/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-24	3/23/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-25	5/25/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-26	5/25/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-27	5/25/2006	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-29	4/23/2007	4	5	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-30	4/24/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-31	4/24/2007	4	5	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-32	4/24/2007	3	4	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-5	12/14/2005	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-6	12/14/2005	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-7	12/14/2005	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-8	12/14/2005	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
TW-9	12/14/2005	5	7	ft bgs	--	--	--	--	--	--	--	--	--	--
A-SB-1	11/14/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
A-SB-5	11/14/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
A-SB-6	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
B-SB-3	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--

**Table 8 - Summary of Subsurface Soil Data and Exceedances of Type 4 RRS
Colonial Terminals, Plant #2
Savannah, Georgia**

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units Type 4 RRS ¹	Beryllium mg/kg 2,400	Cadmium mg/kg 1,200	Chromium mg/kg 1,200	Copper mg/kg 48,000	Mercury mg/kg 120	Nickel mg/kg 24,000	Silver mg/kg 6,000	Thallium mg/kg 12	Zinc mg/kg 360,000	2,4-Dinitrotoluene mg/kg 2,400
B-SB-3 DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
B-SB-8	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
B-SB-8 DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
B-SB-13	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
B-SB-13DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
B-SB-18	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
B-SB-23	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
B-SB-23DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
B-SB-28	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
B-SB-28DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
B-SB-38	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
B-SB-38 DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
B-SB-48	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
B-SB-48 DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
B-SB-53	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
B-SB-53 DUP	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
C-SB-1	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
C-SB-1	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--	--
C-SB-3	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--	--
C-SB-4	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
C-SB-4	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--	--
C-SB-5	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
C-SB-5	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--	--
C-SB-6	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
C-SB-6	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--	--
E-SB-1	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
E-SB-1	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--	--
E-SB-3	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--	--
E-SB-4	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
E-SB-4	10/5/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--	--
F-SB-1	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
F-SB-7	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
F-SB-8	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
F-SB-10	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
F-SB-13	11/14/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--	--
F-SB-14	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
F-SB-15	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
F-SB-16	11/14/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--	--
F-SB-18	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
F-SB-20	11/14/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
G-SB-1	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
G-SB-3	11/14/2006	5	8	ft bgs	--	--	--	--	--	--	--	--	--	--

**Table 8 - Summary of Subsurface Soil Data and Exceedances of Type 4 RRS
Colonial Terminals, Plant #2
Savannah, Georgia**

Sample ID	Sample Date	Min Depth	Max Depth	Analyte Units Type 4 RRS ¹	Beryllium mg/kg 2,400	Cadmium mg/kg 1,200	Chromium mg/kg 1,200	Copper mg/kg 48,000	Mercury mg/kg 120	Nickel mg/kg 24,000	Silver mg/kg 6,000	Thallium mg/kg 12	Zinc mg/kg 360,000	2,4-Dinitrotoluene mg/kg 2,400
G-SB-4	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
G-SB-5	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
G-SB-6	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
G-SB-7	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
G-SB-8	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
G-SB-9	11/14/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
G-SB-10	11/14/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
I-SB-1	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
I-SB-2	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
I-SB-3	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
I-SB-4	10/5/2006	2	4	ft bgs	--	--	--	--	--	--	--	--	--	--
I-SB-5	10/5/2006	2	4	ft bgs	--	--	--	--	--	--	--	--	--	--
I-SB-8	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
I-SB-9	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--
I-SB-10	10/5/2006	2	5	ft bgs	--	--	--	--	--	--	--	--	--	--

Notes:

(1) Type 4 Risk Reduction Standards for Surface Soil (ENVIRON, 2012)

Subsurface soil samples from below 10 ft bgs are not included

Concentration exceeds the Type 4 RRS (ENVIRON, 2012)

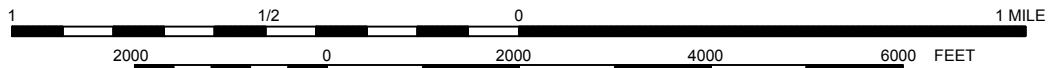
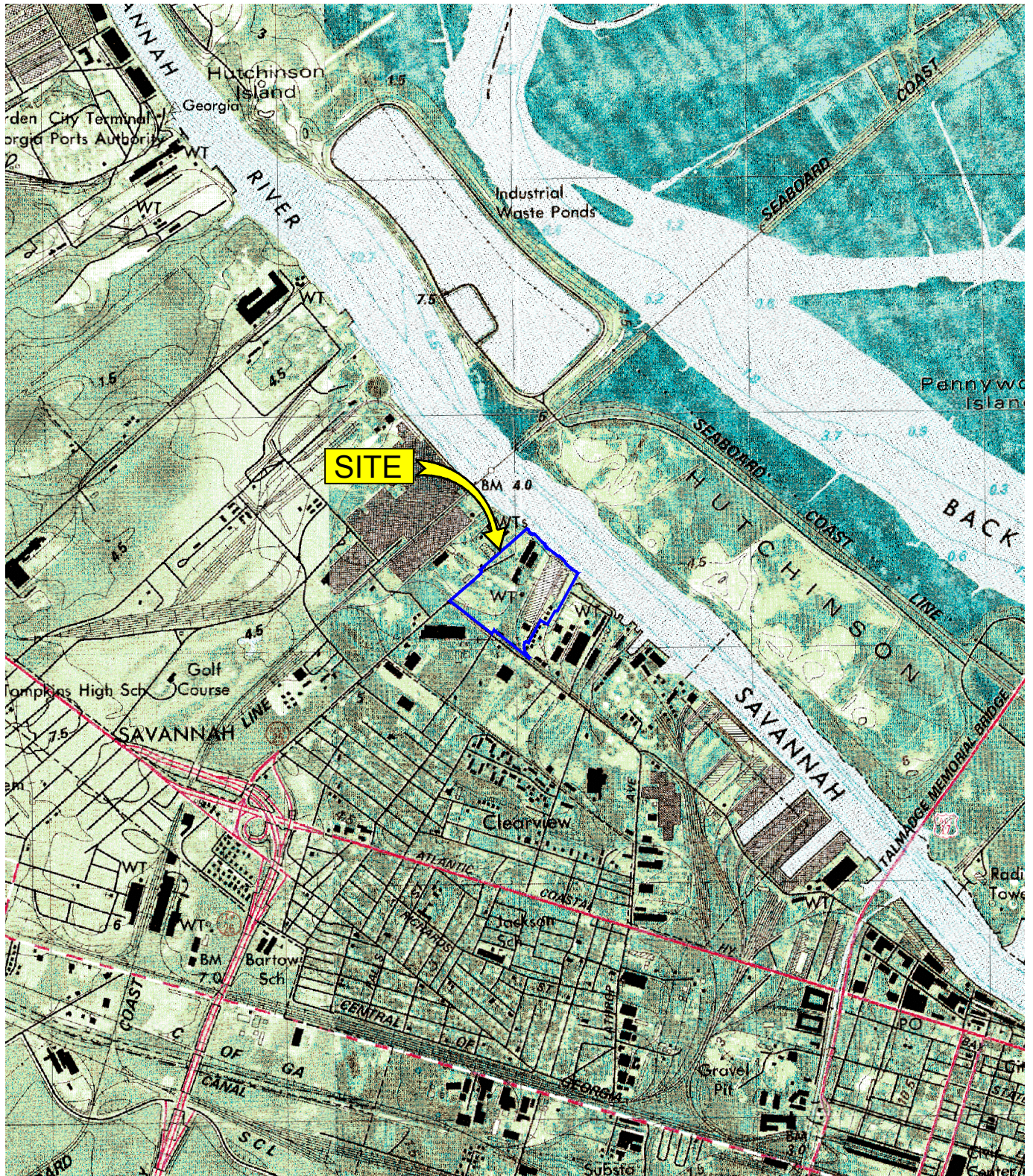
mg/kg -- Milligrams per kilogram (parts per million)

ft bgs -- Feet below ground surface

< Analyte was not detected at the laboratory reporting limit indicated

-- Analyte was not sampled for

Figures



CONTOUR INTERVAL 1.5 METERS

SOURCE: U.S.G.S. 7.5 minute series (topographic)
Savannah, Georgia Quadrangle, 1978,
Garden City, Georgia Quadrangle, 1980.



LEGEND	
	APPROXIMATE SITE BOUNDARY



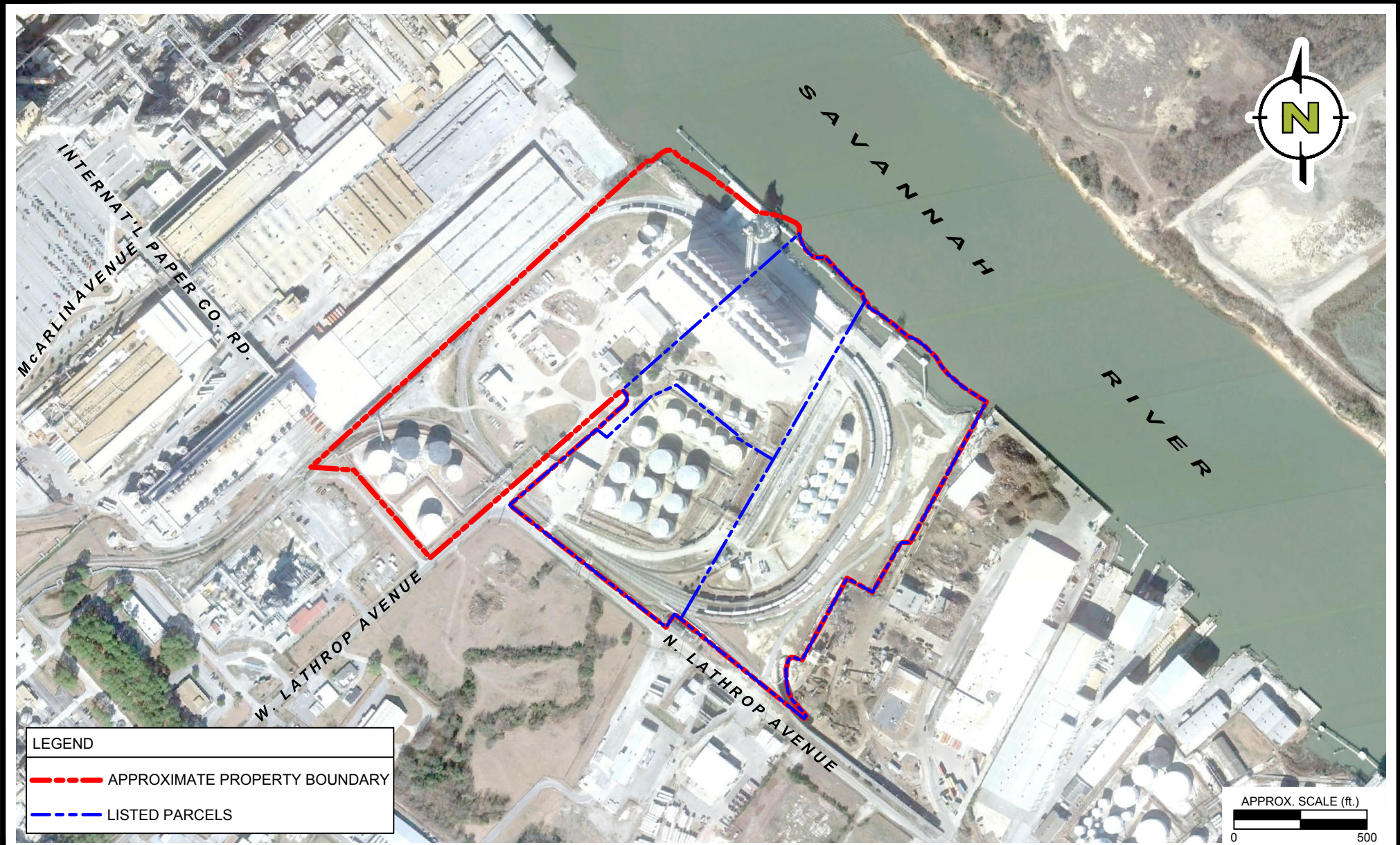
DRAFTED BY: ELS

DATE: 9/17/12

SITE LOCATION MAP
COLONIAL TERMINALS, INC.
373 NORTH LANTHROP AVENUE
SAVANNAH, GEORGIA

FIGURE
1

07-30114B



SITE LAYOUT
COLONIAL TERMINALS, INC.
373 NORTH LATHROP AVENUE
SAVANNAH, GEORGIA

FIGURE
2



SAVANNAH RIVER

CHANNEL LINE

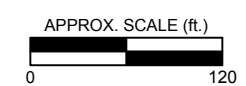
SOIL VAPOR EXTRACTION SYSTEM

LIMITS OF GP-07-06 SOIL EXCAVATION

LIMITS OF TANK 88 SOIL EXCAVATION

LEGEND

- EXCAVATION AREA - METALS
- EXCAVATION AREA - VOCs
- EXCAVATION AREA - CITY OF SAVANNAH
- 5 EXCAVATION DEPTH (FEET BELOW GROUND SURFACE)



SOIL EXCAVATION AND REMEDIATION AREAS
COLONIAL TERMINALS, INC.
 373 N. LATHROP AVENUE
 SAVANNAH, GEORGIA

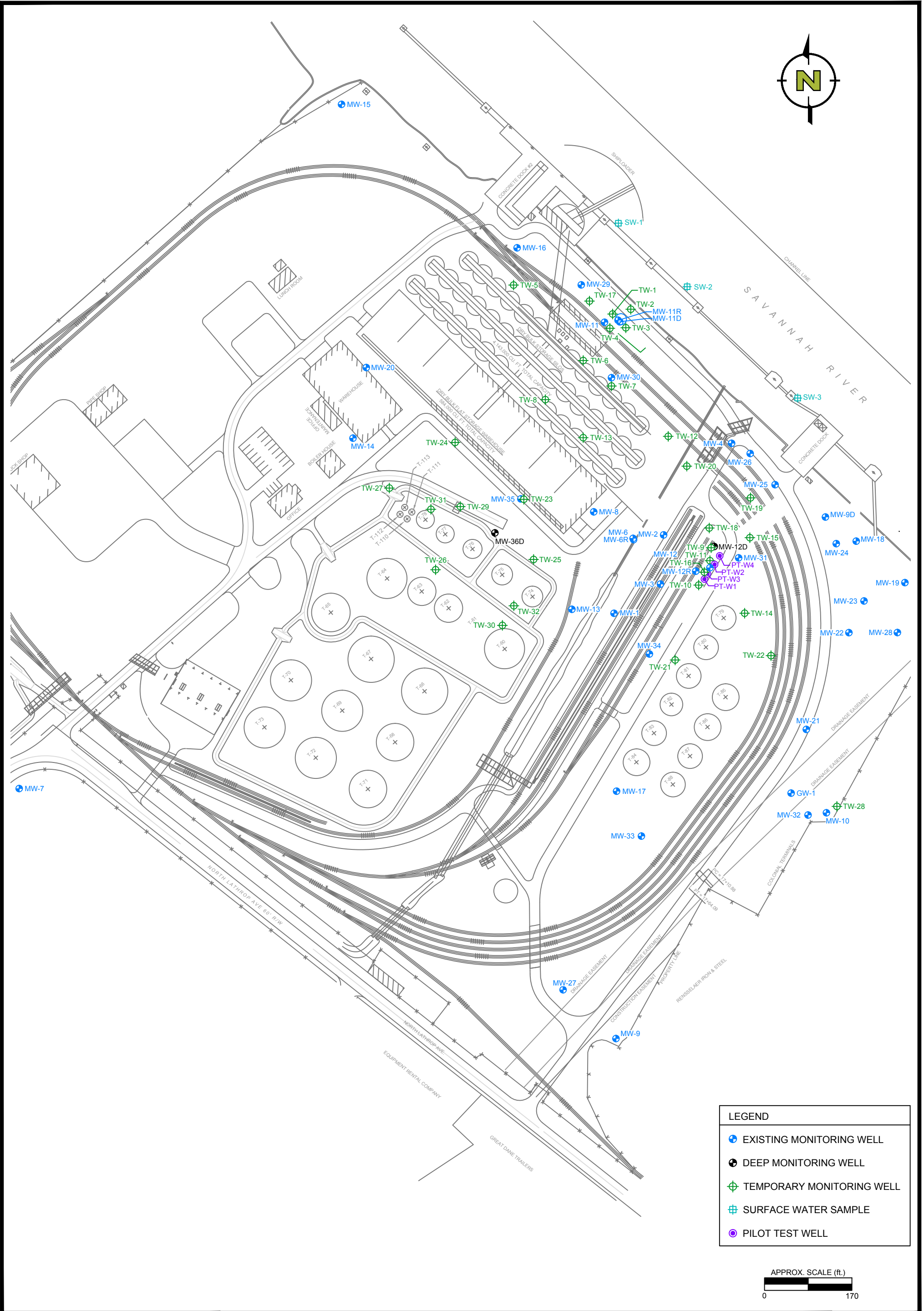
ENVIRON

FIGURE
3

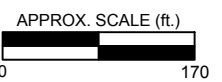
DRAFTED BY: APR DATE: 10/3/12 07-30114B

L:\Loop Project Files\00_CAD FILES\07 Colonial Terminals VRR Application 07-30114B\2012.09 Figures\03_Soil Excavation and Remediation Areas.dwg

Sources: Environmental Resources Management, Drawing 1, Site Layout Map, Revised Cap for VOCs, for Colonial Terminals, Inc., December 2008 and drawing 6-1, Confirmation Sample Locations, Colonial Terminals, HSI Site #10098, February 2011.



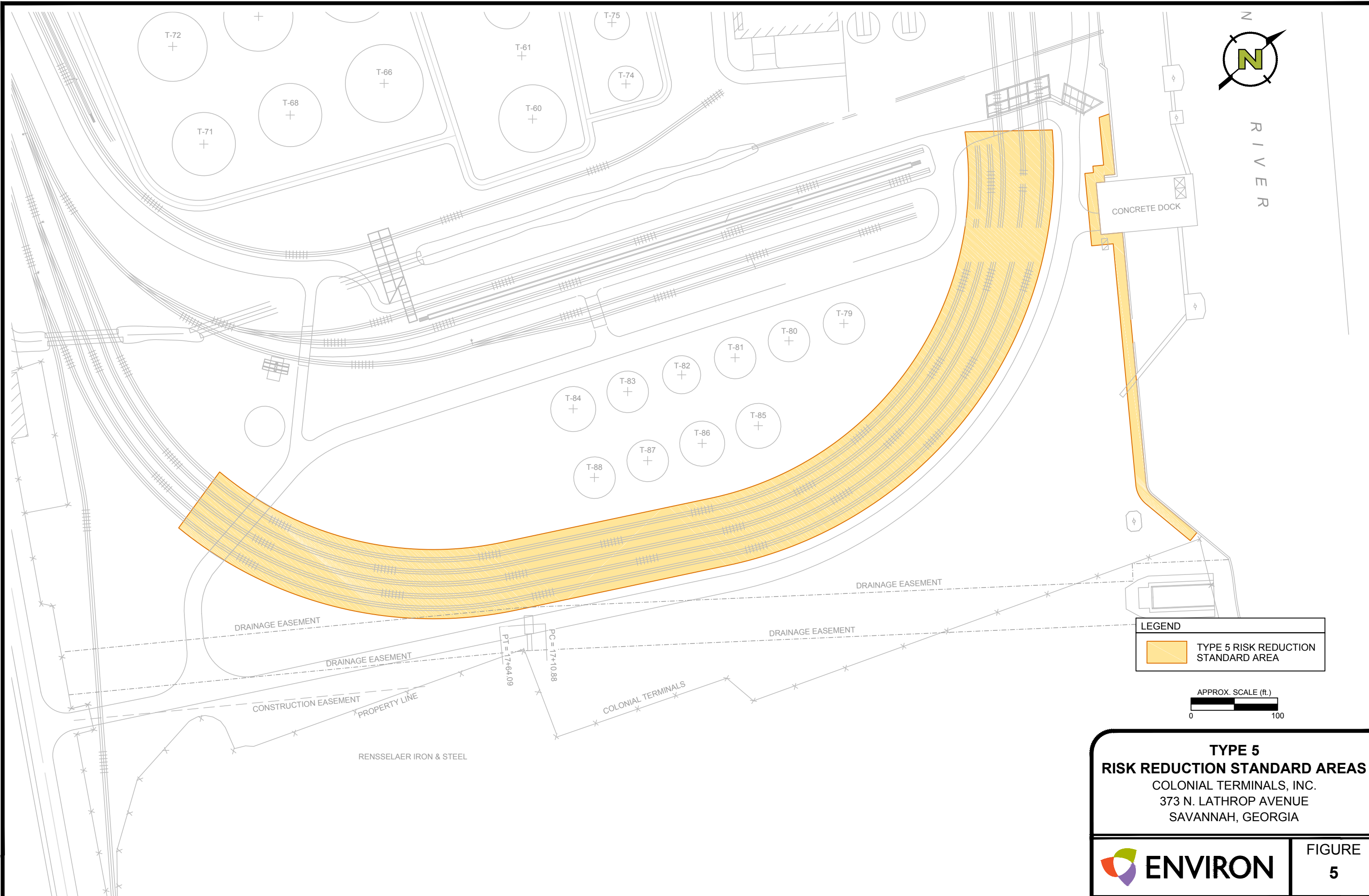
LEGEND	
	EXISTING MONITORING WELL
	DEEP MONITORING WELL
	TEMPORARY MONITORING WELL
	SURFACE WATER SAMPLE
	PILOT TEST WELL




GROUNDWATER MONITORING WELL AND SURFACE WATER SAMPLING LOCATIONS
 COLONIAL TERMINALS, INC.
 373 N. LATHROP AVENUE
 SAVANNAH, GEORGIA

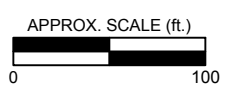
FIGURE 4

L:\Loop Project Files\00_CAD FILES\07Colonial Terminals VRRP Application 07-30114B\2012.09 Figures\05_Type 5 Risk Reduction Standard Areas.dwg



LEGEND

 TYPE 5 RISK REDUCTION STANDARD AREA



**TYPE 5
RISK REDUCTION STANDARD AREAS**
 COLONIAL TERMINALS, INC.
 373 N. LATHROP AVENUE
 SAVANNAH, GEORGIA

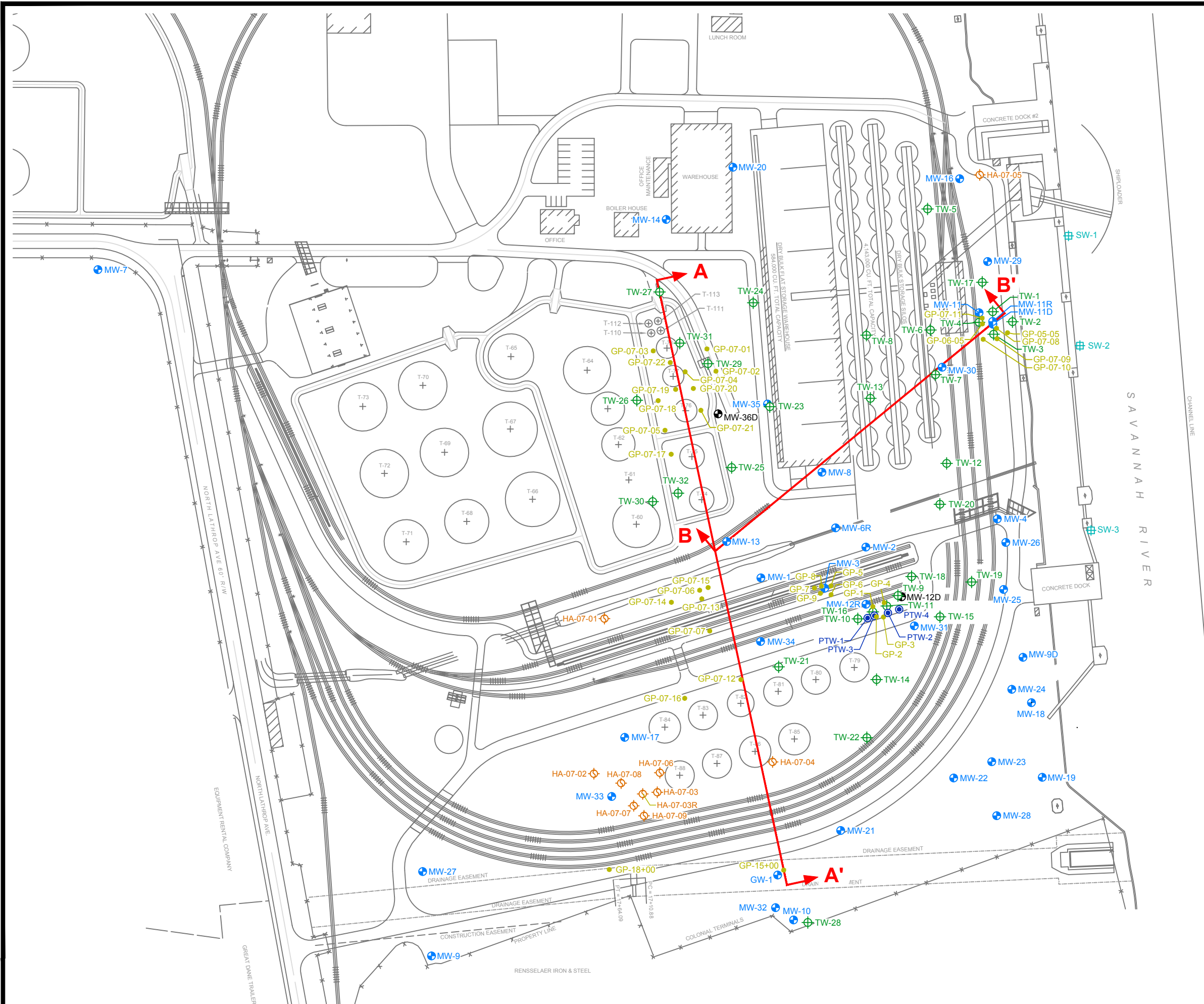


**FIGURE
5**

DRAFTED BY: APR DATE: 9/27/12 07-30114B

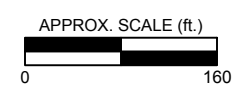
Sources: Environmental Resources Management, Drawing 1, Site Layout Map, Revised Cap for VOCs, for Colonial Terminals, Inc., December 2008 and drawing 6-1, Confirmation Sample Locations, Colonial Terminals, HSI Site #10098, February 2011.

L:\Loop Project Files\00_CAD FILES\07 Colonial Terminals VRR Application 07-30114B\2012-10 Figures\06_Cross-Section Transects.dwg



LEGEND

- EXISTING MONITORING WELL
- DEEP MONITORING WELL
- ⊕ TEMPORARY MONITORING WELL
- ⊕ SURFACE WATER SAMPLE
- GEOPROBE LOCATION
- ⊕ PILOT TEST WELL
- ⊕ HAND AUGER
- ▲ CROSS-SECTION TRANSECT



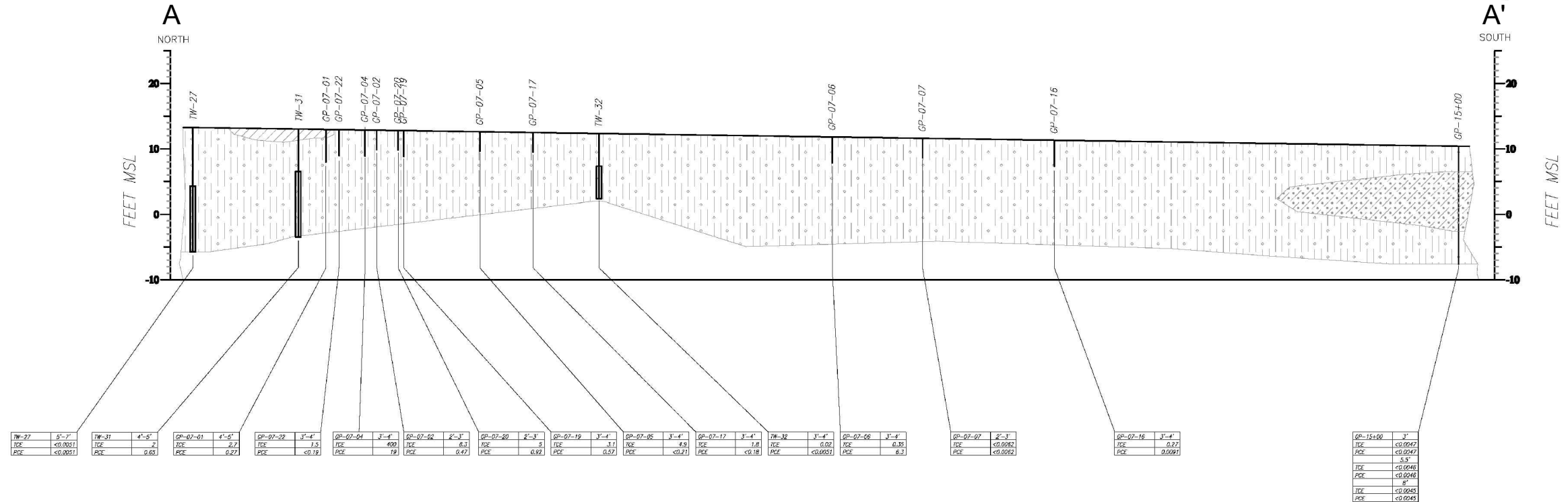
CROSS-SECTION TRANSECTS
 COLONIAL TERMINALS, INC.
 373 N. LATHROP AVENUE
 SAVANNAH, GEORGIA



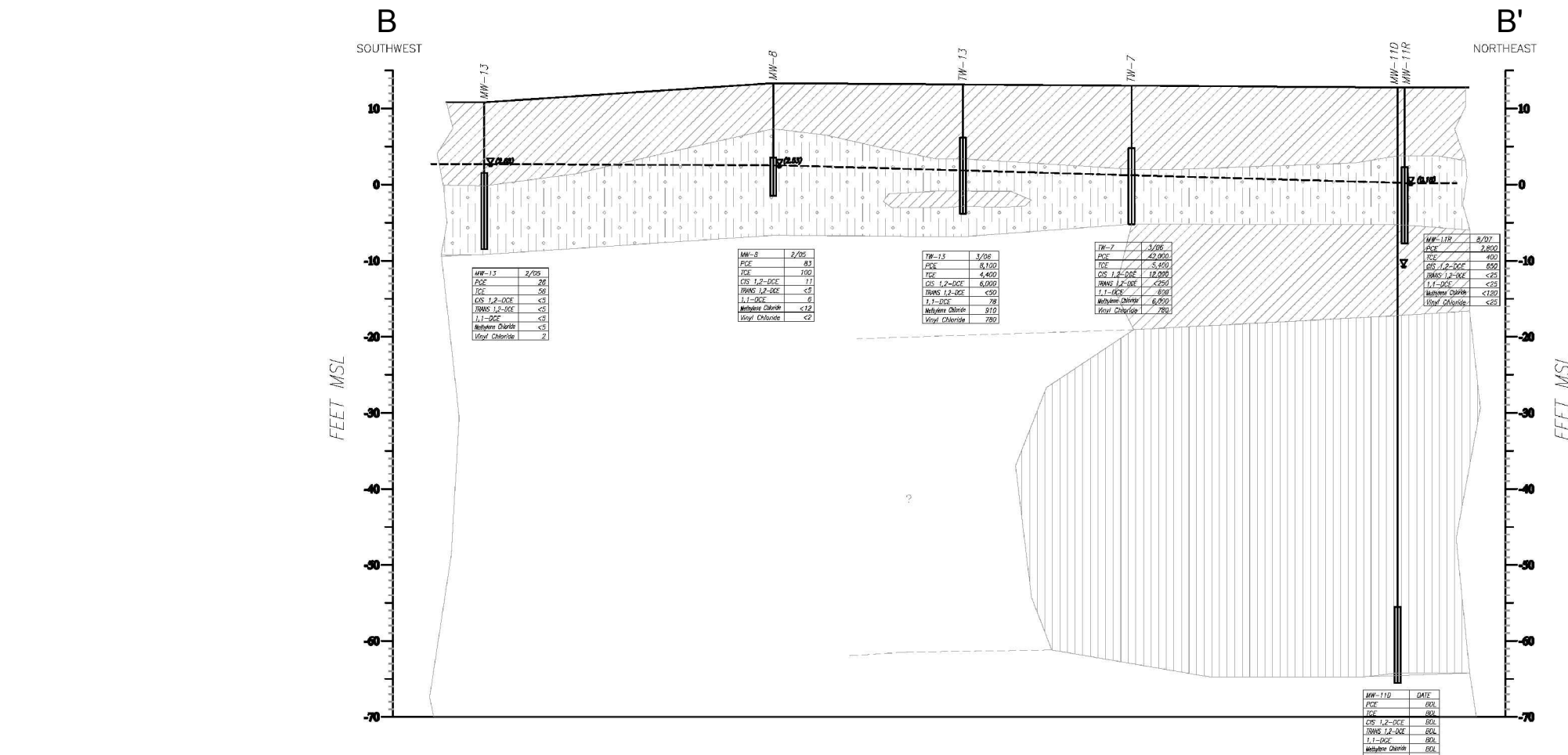
FIGURE
6

DRAFTED BY: APR DATE: 10/9/12 07-30114B

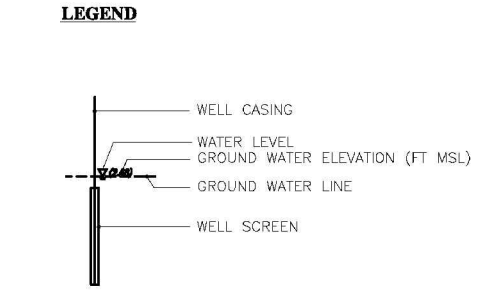
Sources: Environmental Resources Management, Drawing 1, Site Layout Map, Revised Cap for VOCs, for Colonial Terminals, Inc., December 2008.



SECTION A - A'

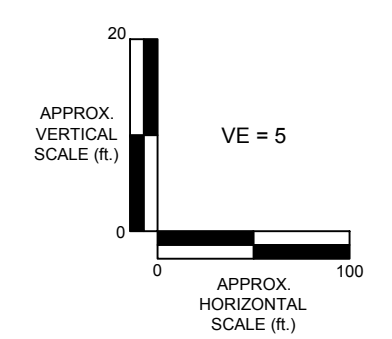


SECTION B - B'



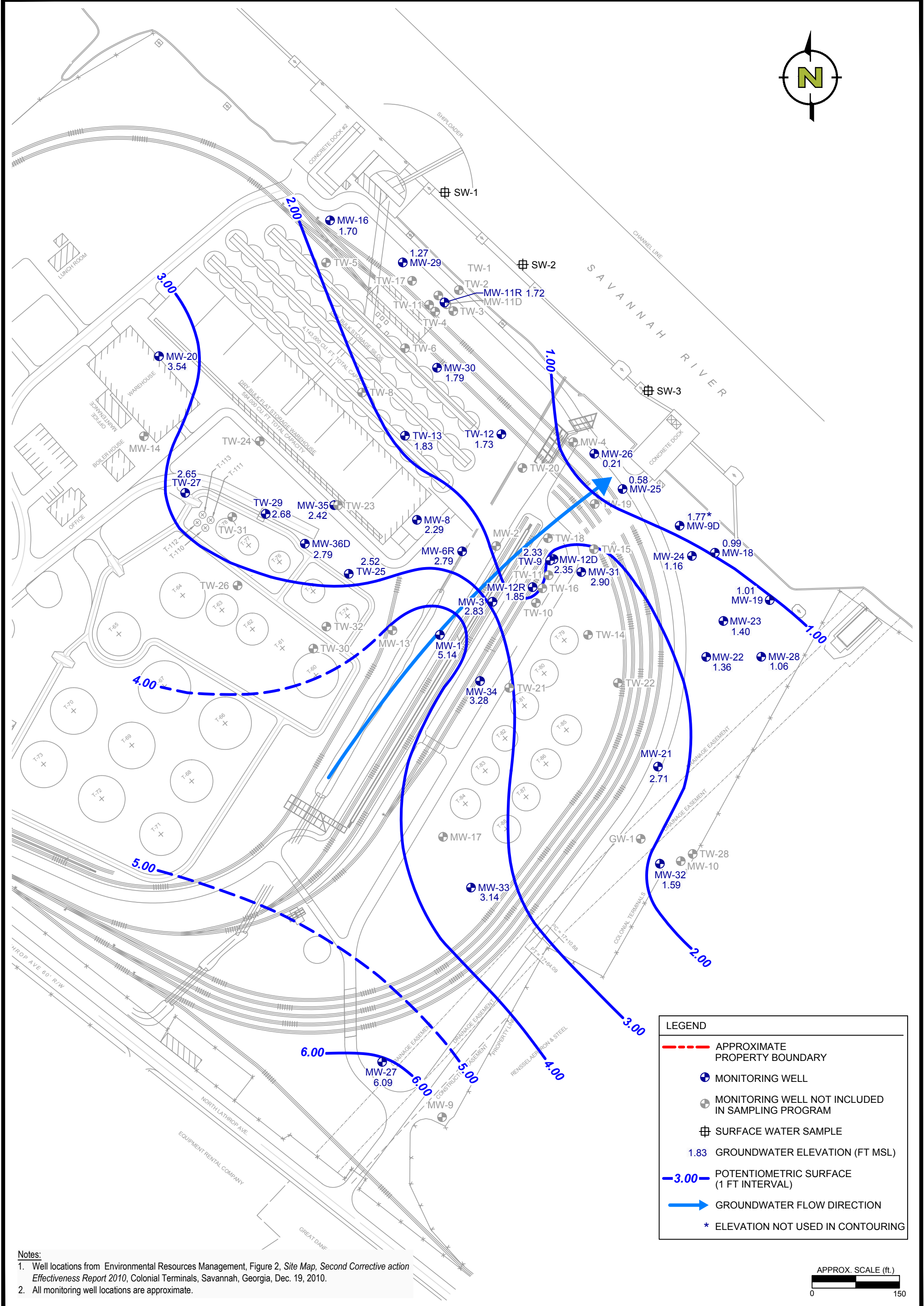
- CL - SANDY CLAY/CLAY TAN TO ORANGE TO GRAY
- SM - SILTY SAND, LIGHT BROWN TO GRAY, FINE TO MEDIUM GRAINED
- SC - CLAYEY SAND, LIGHT TO DARK BROWN, LOOSE TO STIFF

Sample ID	Sample Depth
Constituent	Result (mg/kg)



CROSS SECTION A-A' AND B-B'
COLONIAL TERMINALS, INC.
 373 NORTH LANTHROP AVENUE
 SAVANNAH, GEORGIA

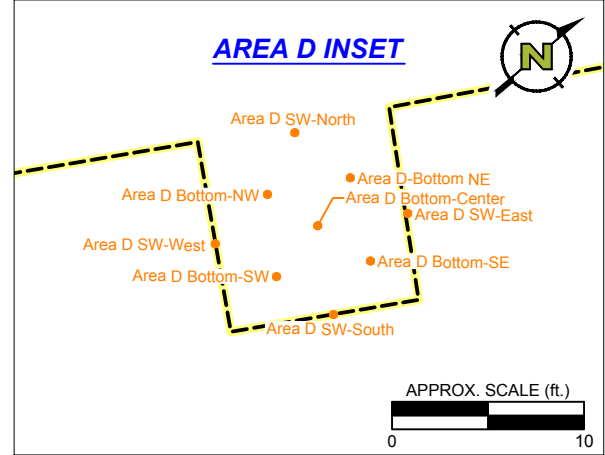
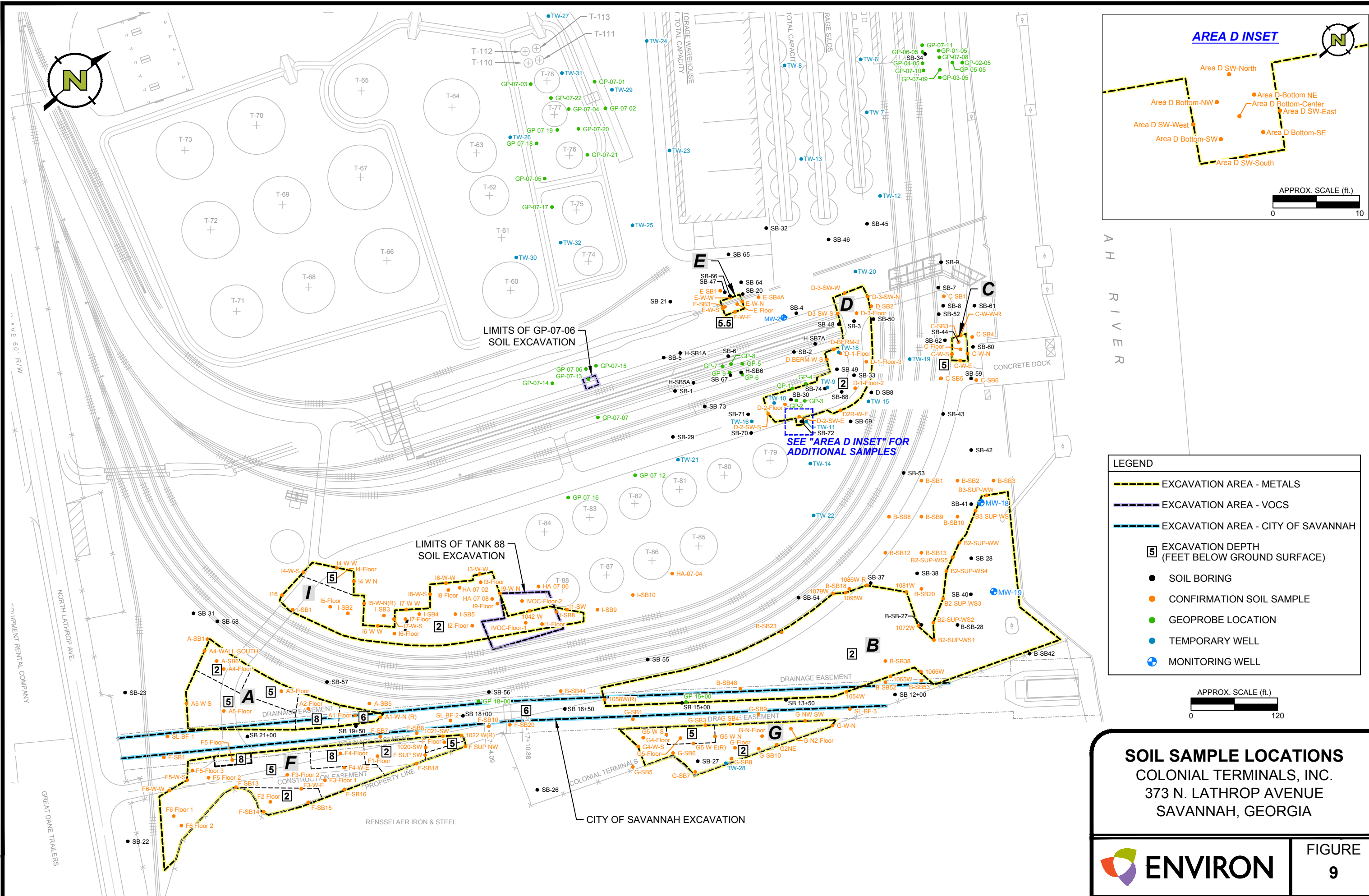




GROUNDWATER POTENTIOMETRIC SURFACE MAP (2010)
 COLONIAL TERMINALS, INC.
 373 NORTH LATHROP AVENUE
 SAVANNAH, GEORGIA

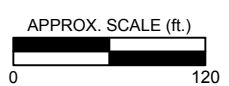
FIGURE 8

L:\Loop Project Files\00_CAD FILES\07 Colonial Terminals VRRP Application 07-30114B\2012-10 Figures\09_Soil Sample Locations (r102912).dwg



LEGEND

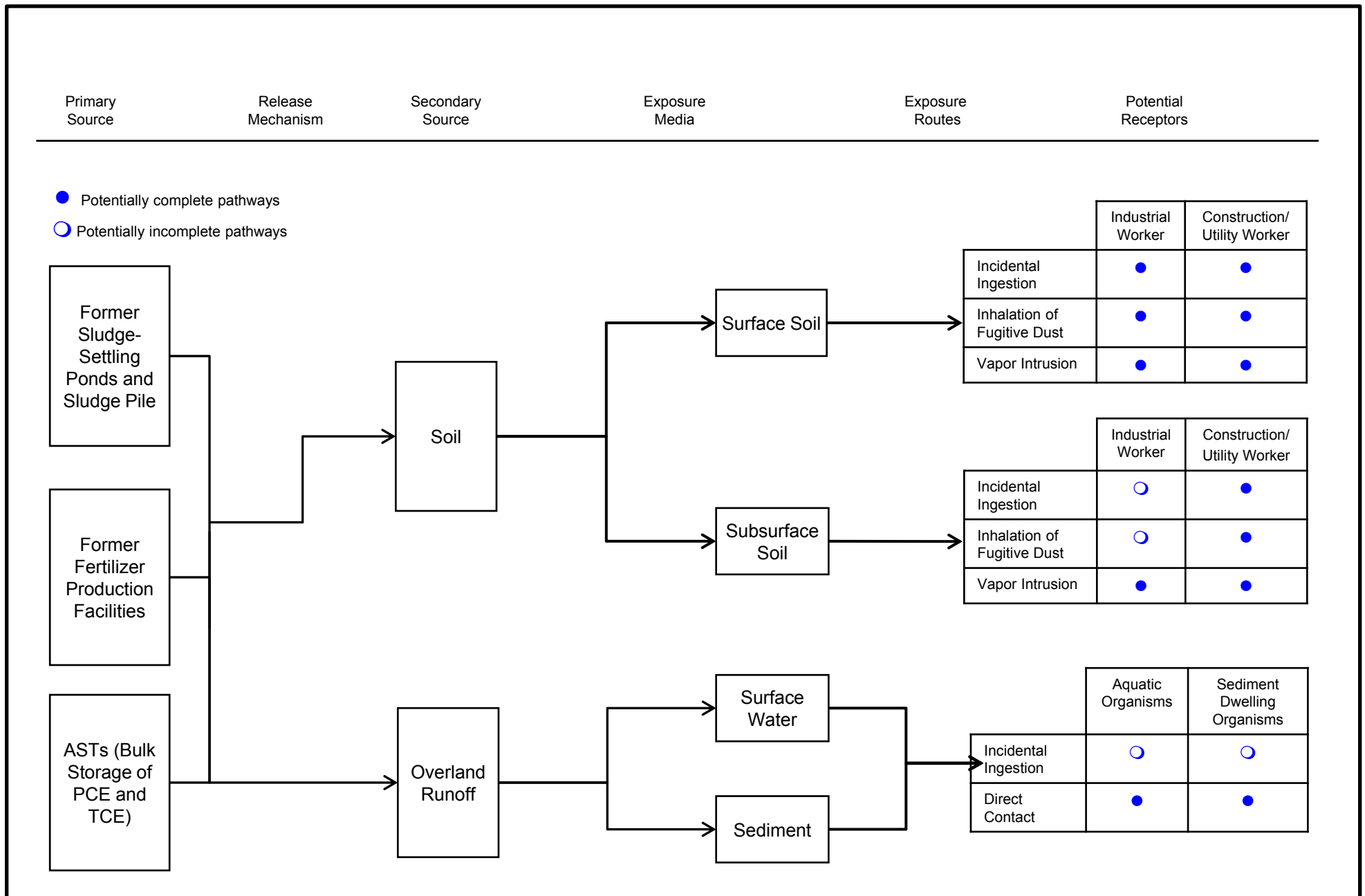
- EXCAVATION AREA - METALS
- EXCAVATION AREA - VOCs
- EXCAVATION AREA - CITY OF SAVANNAH
- 5 EXCAVATION DEPTH (FEET BELOW GROUND SURFACE)
- SOIL BORING
- CONFIRMATION SOIL SAMPLE
- GEOPROBE LOCATION
- TEMPORARY WELL
- MONITORING WELL



SOIL SAMPLE LOCATIONS
COLONIAL TERMINALS, INC.
373 N. LATHROP AVENUE
SAVANNAH, GEORGIA

	FIGURE 9
DRAFTED BY: APR	DATE: 10/29/12
07-30114B	

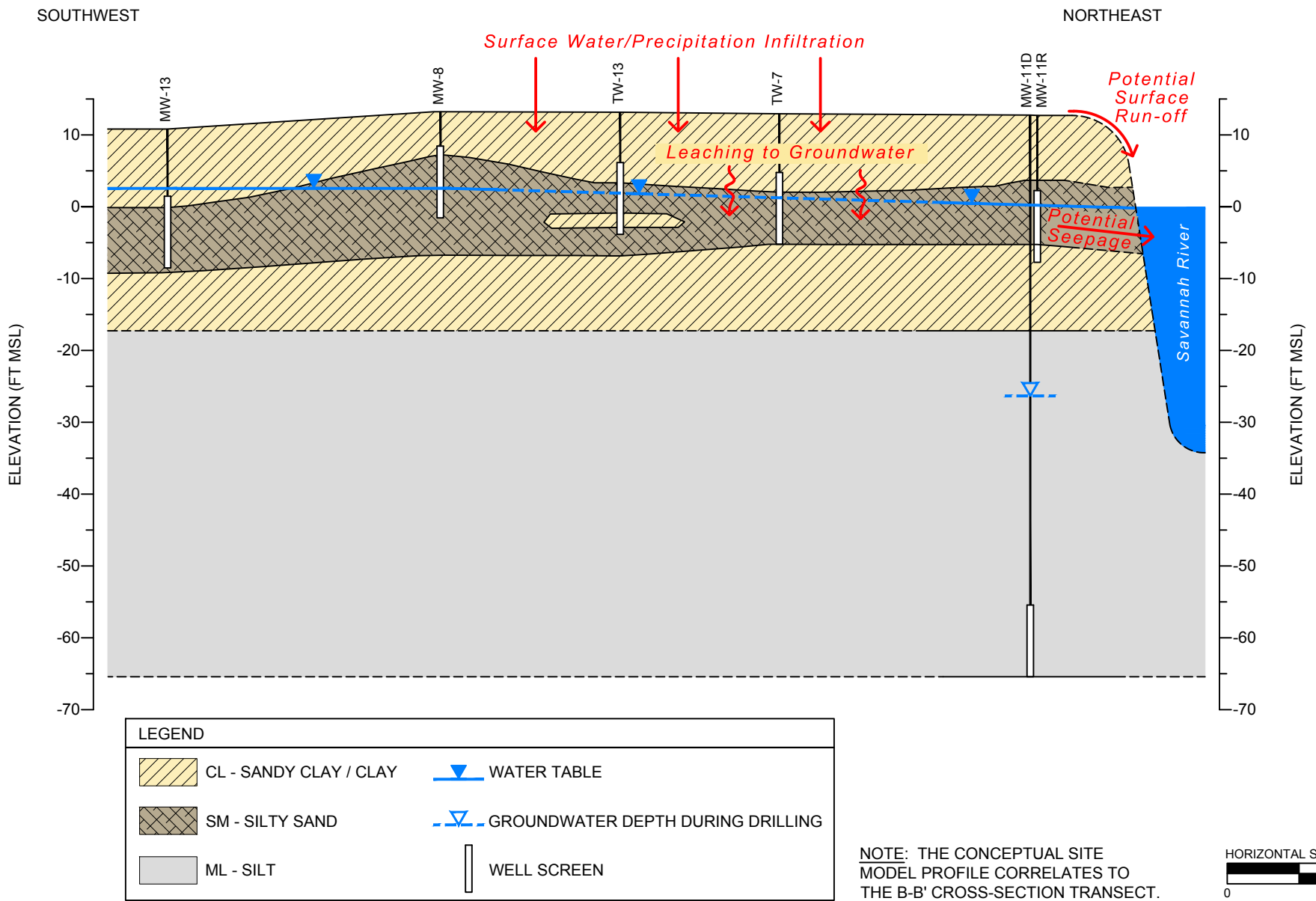
Sources: Environmental Resources Management, Drawing 1, Site Layout Map, Revised Cap for VOCs, for Colonial Terminals, Inc., December 2008 and drawing 6-1, Confirmation Sample Locations, Colonial Terminals, HSI Site #10098, February 2011.



CONCEPTUAL SITE MODEL (2-D)

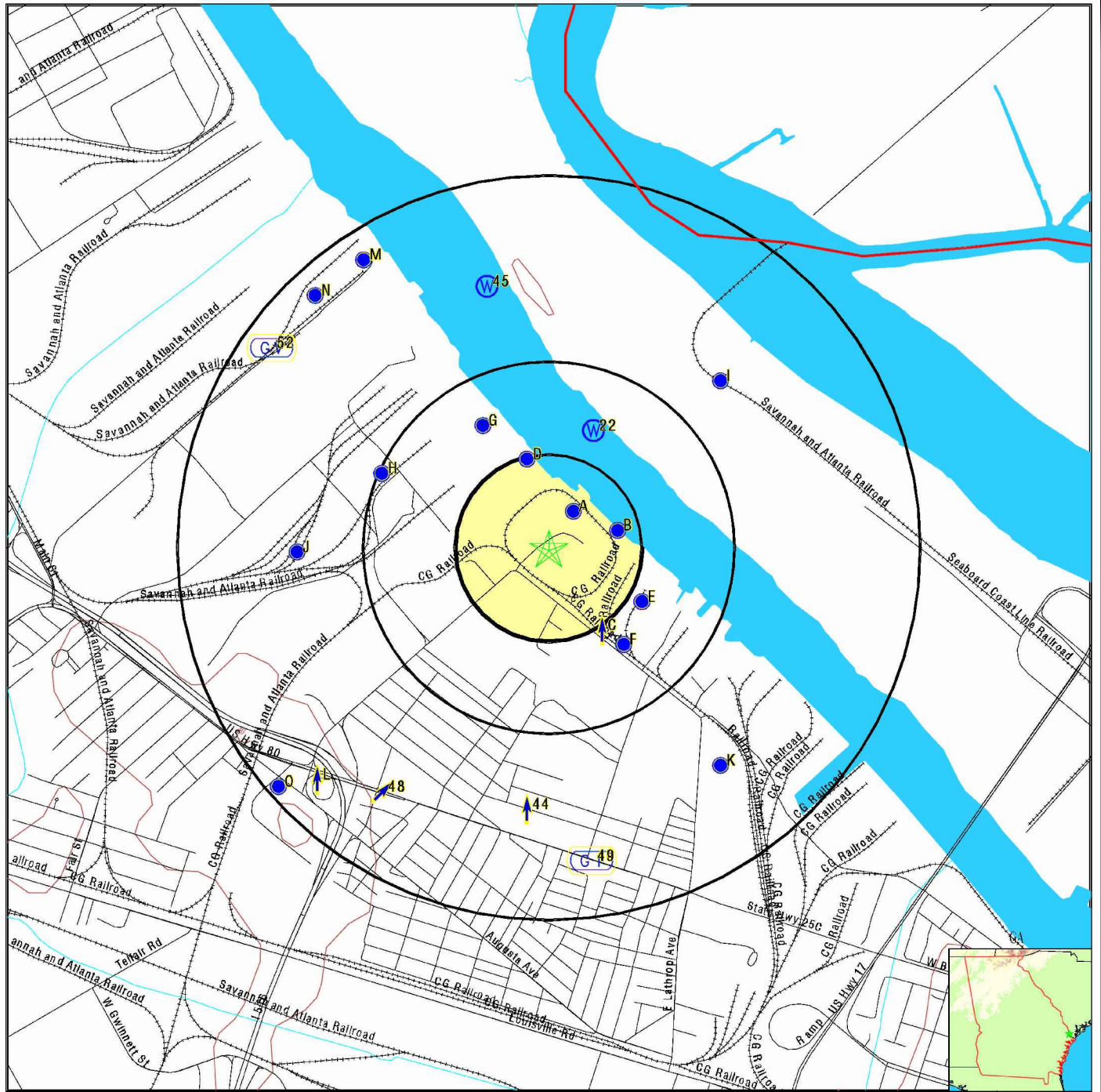
COLONIAL TERMINALS, INC.
373 N. LATHROP AVENUE
SAVANNAH, GEORGIA

Figure
10



CONCEPTUAL SITE MODEL FOR POTENTIAL CONTAMINANT MIGRATION
 COLONIAL TERMINALS, INC.
 373 NORTH LANTHROP AVENUE
 SAVANNAH, GEORGIA

FIGURE
11



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Wildlife Areas



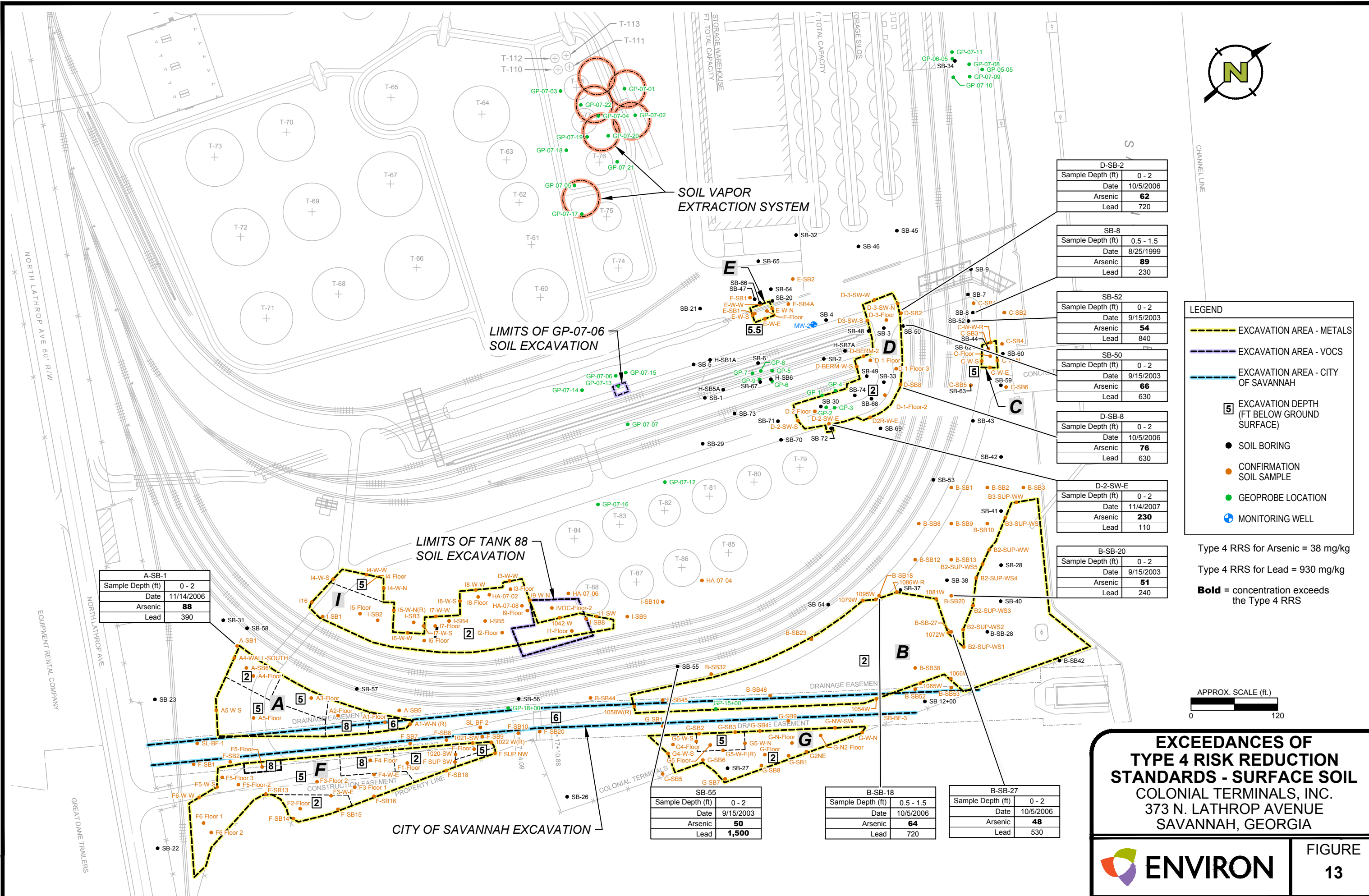
DRAWING AND DATA SOURCE: ENVIRONMENTAL RESOURCES MANAGEMENT, INC. (SEPTEMBER 2012).



WATER SUPPLY WELL LOCATIONS
 COLONIAL TERMINALS, INC.
 373 N. LATHROP AVENUE
 SAVANNAH, GEORGIA

FIGURE
12

L:\Loop Project Files\00_CAD FILES\07 Colonial Terminals VRR Application 07-30114B\2012-10 Figures\13 Exceedances of Type 4 RRS - Surface Soil.dwg

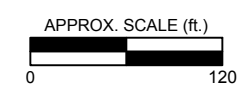


CHANNELLINE

LEGEND

- EXCAVATION AREA - METALS
- EXCAVATION AREA - VOCs
- EXCAVATION AREA - CITY OF SAVANNAH
- 5 EXCAVATION DEPTH (FT BELOW GROUND SURFACE)
- SOIL BORING
- CONFIRMATION SOIL SAMPLE
- GEOPROBE LOCATION
- ⊕ MONITORING WELL

Type 4 RRS for Arsenic = 38 mg/kg
 Type 4 RRS for Lead = 930 mg/kg
Bold = concentration exceeds the Type 4 RRS



D-SB-2	
Sample Depth (ft)	0 - 2
Date	10/5/2006
Arsenic	62
Lead	720

SB-8	
Sample Depth (ft)	0.5 - 1.5
Date	8/25/1999
Arsenic	89
Lead	230

SB-52	
Sample Depth (ft)	0 - 2
Date	9/15/2003
Arsenic	54
Lead	840

SB-50	
Sample Depth (ft)	0 - 2
Date	9/15/2003
Arsenic	66
Lead	630

D-SB-8	
Sample Depth (ft)	0 - 2
Date	10/5/2006
Arsenic	76
Lead	630

D-2-SW-E	
Sample Depth (ft)	0 - 2
Date	11/4/2007
Arsenic	230
Lead	110

B-SB-20	
Sample Depth (ft)	0 - 2
Date	9/15/2003
Arsenic	51
Lead	240

A-SB-1	
Sample Depth (ft)	0 - 2
Date	11/14/2006
Arsenic	88
Lead	390

SB-55	
Sample Depth (ft)	0 - 2
Date	9/15/2003
Arsenic	50
Lead	1,500

B-SB-18	
Sample Depth (ft)	0.5 - 1.5
Date	10/5/2006
Arsenic	64
Lead	720

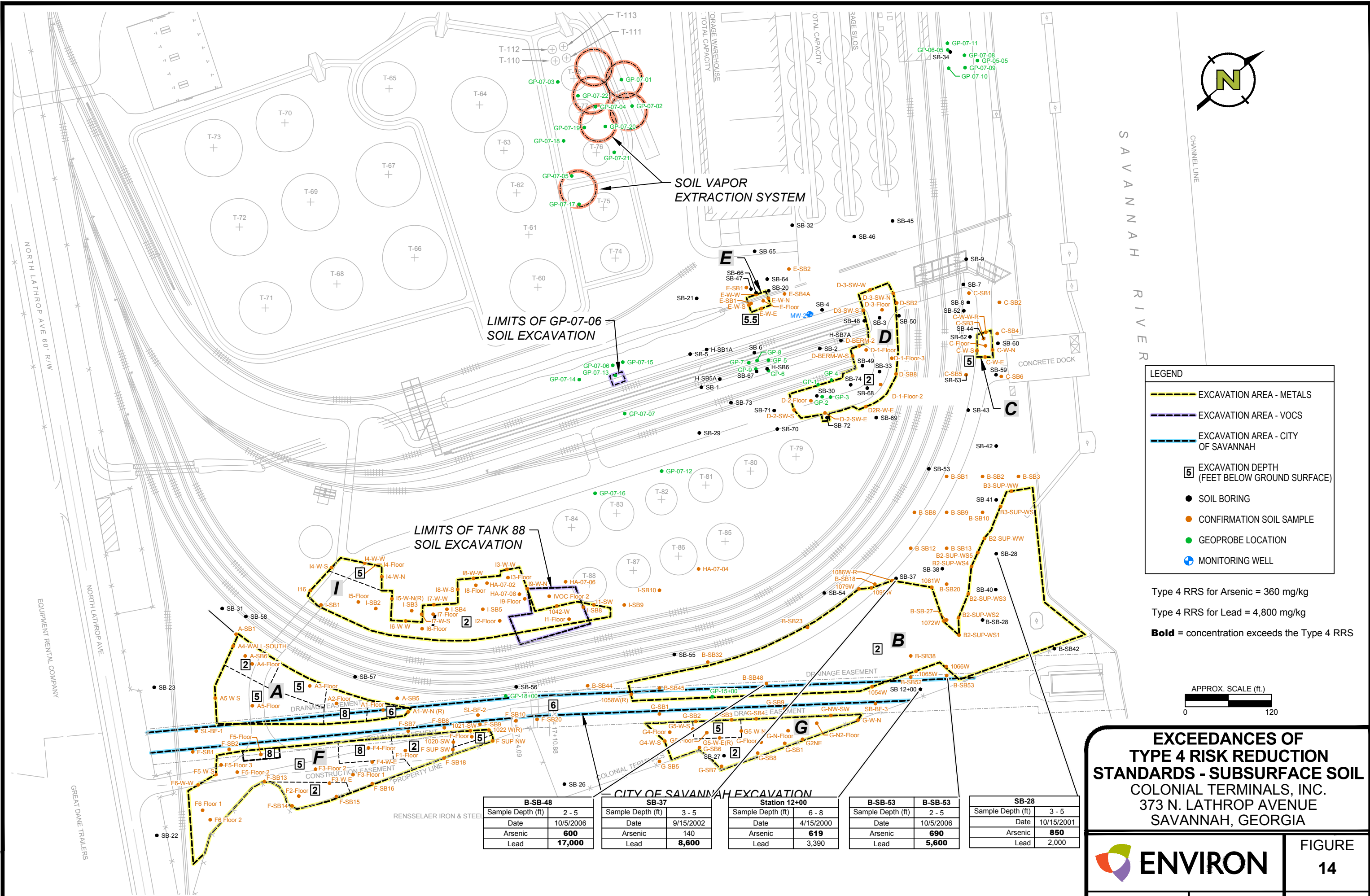
B-SB-27	
Sample Depth (ft)	0 - 2
Date	10/5/2006
Arsenic	48
Lead	530

EXCEEDANCES OF TYPE 4 RISK REDUCTION STANDARDS - SURFACE SOIL
 COLONIAL TERMINALS, INC.
 373 N. LATHROP AVENUE
 SAVANNAH, GEORGIA



FIGURE
13

L:\Loop Project Files\00_CAD FILES\07 Colonial Terminals VRR Application 07-30114B\2012-10 Figures\14 Exceedances of Type 4 RRS - Subsurface Soil.dwg



B-SB-48	
Sample Depth (ft)	2 - 5
Date	10/5/2006
Arsenic	600
Lead	17,000

SB-37	
Sample Depth (ft)	3 - 5
Date	9/15/2002
Arsenic	140
Lead	8,600

Station 12+00	
Sample Depth (ft)	6 - 8
Date	4/15/2000
Arsenic	619
Lead	3,390

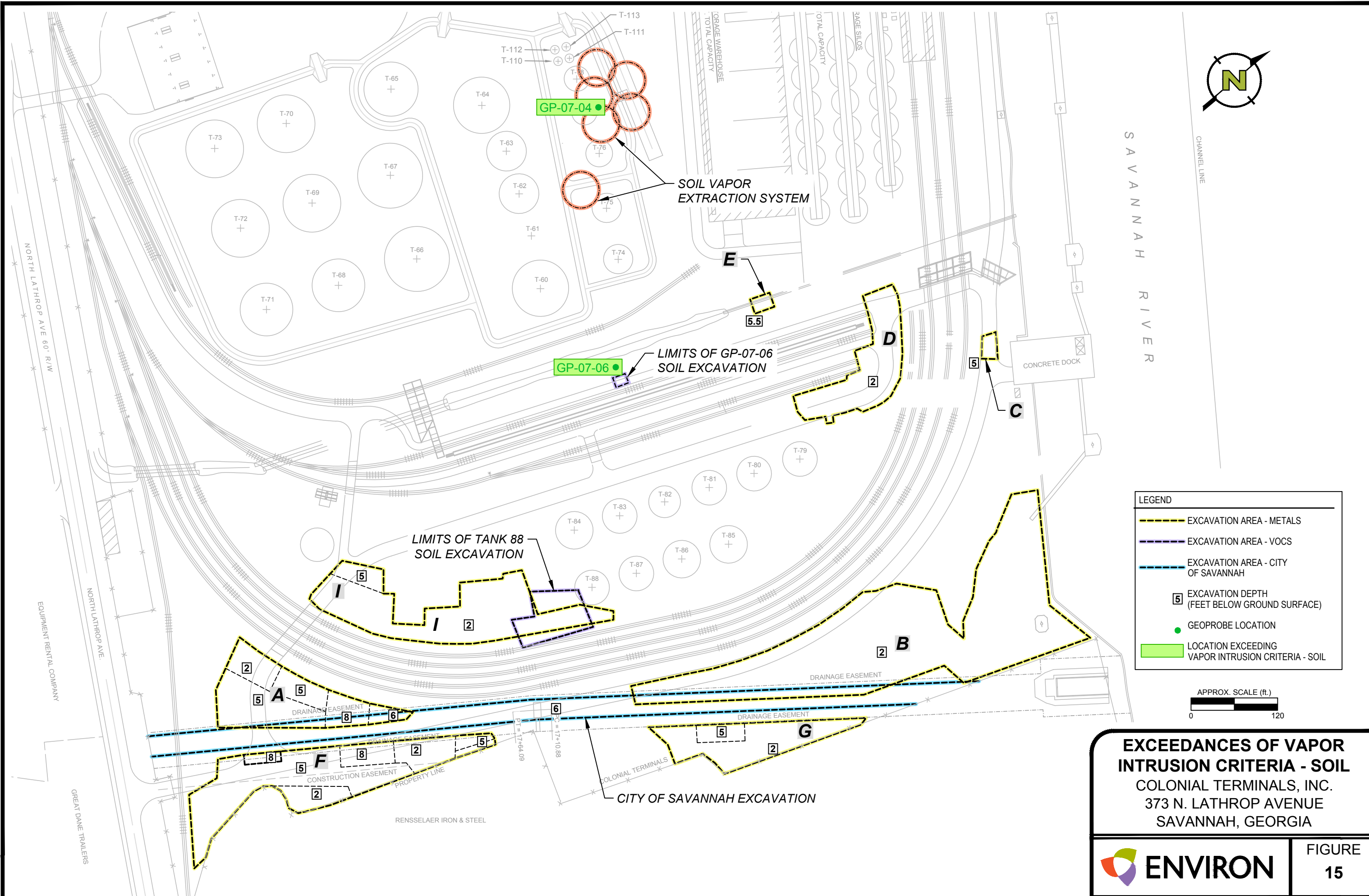
B-SB-53	
Sample Depth (ft)	2 - 5
Date	10/5/2006
Arsenic	690
Lead	5,600

SB-28	
Sample Depth (ft)	3 - 5
Date	10/15/2001
Arsenic	850
Lead	2,000

EXCEEDANCES OF TYPE 4 RISK REDUCTION STANDARDS - SUBSURFACE SOIL
COLONIAL TERMINALS, INC.
373 N. LATHROP AVENUE
SAVANNAH, GEORGIA

ENVIRON FIGURE 14

L:\Loop Project Files\00_CAD FILES\07Colonial Terminals VRR Application 07-30114B\2012-10 Figures\15 Exceedances of Vapor Intrusion Criteria - Soil.dwg



EXCEEDANCES OF VAPOR INTRUSION CRITERIA - SOIL
COLONIAL TERMINALS, INC.
 373 N. LATHROP AVENUE
 SAVANNAH, GEORGIA


	FIGURE
	15

DRAFTED BY: APR	DATE: 10/3/12	07-30114B
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Sources: Environmental Resources Management, Drawing 1, Site Layout Map, Revised Cap for VOCs, for Colonial Terminals, Inc., December 2008 and drawing 6-1, Confirmation Sample Locations, Colonial Terminals, HSI Site #10098, February 2011.

Attachment A
VRP Application Form and Checklist

Voluntary Investigation and Remediation Plan Application Form and Checklist

VRP APPLICANT INFORMATION					
COMPANY NAME	Colonial Terminals, Inc.				
CONTACT PERSON/TITLE	James R Baker				
ADDRESS	P.O. Box 576, Savannah, Georgia 31402				
PHONE	912-443-6553	FAX		E-MAIL	JBaker@colonialgroupinc.com
GEORGIA CERTIFIED PROFESSIONAL GEOLOGIST OR PROFESSIONAL ENGINEER OVERSEEING CLEANUP					
NAME	Juliette Rose		GA PE/PG NUMBER	33954	
COMPANY	ENVIRON International Corporation				
ADDRESS	1600 Parkwood Circle, Suite 310. Atlanta, Georgia 30039				
PHONE	770-874-5010	FAX	770-874-5011	E-MAIL	jjrose@environcorp.com
APPLICANT'S CERTIFICATION					
<p>In order to be considered a qualifying property for the VRP:</p> <p>(1) The property must have a release of regulated substances into the environment;</p> <p>(2) The property shall not be:</p> <p style="margin-left: 20px;">(A) Listed on the federal National Priorities List pursuant to the federal Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. Section 9601.</p> <p style="margin-left: 20px;">(B) Currently undergoing response activities required by an order of the regional administrator of the federal Environmental Protection Agency; or</p> <p style="margin-left: 20px;">(C) A facility required to have a permit under Code Section 12-8-66.</p> <p>(3) Qualifying the property under this part would not violate the terms and conditions under which the division operates and administers remedial programs by delegation or similar authorization from the United States Environmental Protection Agency.</p> <p>(4) Any lien filed under subsection (e) of Code Section 12-8-96 or subsection (b) of Code Section 12-13-12 against the property shall be satisfied or settled and released by the director pursuant to Code Section 12-8-94 or Code Section 12-13-6.</p> <p>In order to be considered a participant under the VRP:</p> <p>(1) The participant must be the property owner of the voluntary remediation property or have express permission to enter another's property to perform corrective action.</p> <p>(2) The participant must not be in violation of any order, judgment, statute, rule, or regulation subject to the enforcement authority of the director.</p> <p>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</p> <p>I also certify that this property is eligible for the Voluntary Remediation Program (VRP) as defined in Code Section 12-8-105 and I am eligible as a participant as defined in Code Section 12-8-106.</p>					
APPLICANT'S SIGNATURE					
APPLICANT'S NAME/TITLE (PRINT)	James R. Baker, EHS Manager			DATE	11/9/2012

QUALIFYING PROPERTY INFORMATION (For additional qualifying properties, please refer to the last page of application form)			
HAZARDOUS SITE INVENTORY INFORMATION (if applicable)			
HSI Number	10098	Date HSI Site listed	6/29/1994
HSI Facility Name	Colonial Terminals, Plant #2	NAICS CODE	42271, 49319
PROPERTY INFORMATION			
TAX PARCEL ID	1-0549-01-002, 1-0549-01-002A, 01-550-02-004	PROPERTY SIZE (ACRES)	34.6
PROPERTY ADDRESS	373 North Lathrop Avenue		
CITY	Savannah	COUNTY	Chatham
STATE	Georgia	ZIPCODE	31402
LATITUDE (decimal format)	32.099236	LONGITUDE (decimal format)	-81.119314
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)	Colonial Terminals, Inc.	PHONE #	912-233-4489
MAILING ADDRESS	P.O. Box 576		
CITY	Savannah	STATE/ZIPCODE	Georgia, 31402
ITEM #	DESCRIPTION OF REQUIREMENT	Location in VRP (i.e. pg., Table #, Figure #, etc.)	For EPD Comment Only (Leave Blank)
1.	\$5,000 APPLICATION FEE IN THE FORM OF A CHECK PAYABLE TO THE GEORGIA DEPARTMENT OF NATURAL RESOURCES. (PLEASE LIST CHECK DATE AND CHECK NUMBER IN COLUMN TITLED "LOCATION IN VRP." PLEASE DO NOT INCLUDE A SCANNED COPY OF CHECK IN ELECTRONIC COPY OF APPLICATION.)	11/9/2012 Check #10908	
2.	WARRANTY DEED(S) FOR QUALIFYING PROPERTY.	Appendix A	
3.	TAX PLAT OR OTHER FIGURE INCLUDING QUALIFYING PROPERTY BOUNDARIES, ABUTTING PROPERTIES, AND TAX PARCEL IDENTIFICATION NUMBER(S).	Appendix A	
4.	ONE (1) PAPER COPY AND TWO (2) COMPACT DISC (CD) COPIES OF THE VOLUNTARY REMEDIATION PLAN IN A SEARCHABLE PORTABLE DOCUMENT FORMAT (PDF).	Attached	
5.	The VRP participant's initial plan and application must include, using all reasonably available current information to the extent known at the time of application, a graphic three-dimensional preliminary conceptual site model (CSM) including a preliminary remediation plan with a table of delineation standards, brief supporting text, charts, and figures (no more than 10 pages, total) that illustrates the site's surface and subsurface setting, the known or suspected source(s) of contamination, how contamination might move within the environment, the potential human health and ecological receptors, and the complete or incomplete exposure pathways that may exist at the site; the preliminary CSM must be updated as the investigation and remediation progresses and an up-to-date CSM must be included in each semi-annual status report submitted to the director by the participant; a PROJECTED MILESTONE SCHEDULE for investigation and remediation of the site, and	CSM – Figures 10 and 11 Delineation Criteria – Table 2 Text, Charts, Figures – Attached	

	<p>after enrollment as a participant, must update the schedule in each semi-annual status report to the director describing implementation of the plan during the preceding period. A Gantt chart format is preferred for the milestone schedule.</p> <p>The following four (4) generic milestones are required in all initial plans with the results reported in the participant's next applicable semi-annual reports to the director. The director may extend the time for or waive these or other milestones in the participant's plan where the director determines, based on a showing by the participant, that a longer time period is reasonably necessary:</p>	Projected Milestone Schedule – Appendix F	
5.a.	Within the first 12 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern on property where access is available at the time of enrollment;	Appendix F	
5.b.	Within the first 24 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern extending onto property for which access was not available at the time of enrollment;	Appendix F	
5.c.	Within 30 months after enrollment, the participant must update the site CSM to include vertical delineation, finalize the remediation plan and provide a preliminary cost estimate for implementation of remediation and associated continuing actions; and	Appendix F	
5.d.	Within 60 months after enrollment, the participant must submit the compliance status report required under the VRP, including the requisite certifications.	Appendix F	
6.	<p>SIGNED AND SEALED PE/PG CERTIFICATION AND SUPPORTING DOCUMENTATION:</p> <p>"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.</p> <p>Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.</p> <p>The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."</p> <p><u>Juliette Rose #33954</u> Printed Name and GA PE/PG Number</p> <p><u>11/12/2012</u> Date</p> <p><u>Juliette Rose</u> Signature and Stamp</p> 		

Appendix A

Legal Description and Warranty Deed



Tax Parcel Location Map

Colonial Terminals, Inc. (HSI No. 1 0098)
Savannah, Georgia

Appendix A
Entire Site





Owner: COLONIAL TERMINALS INC
 PIN: 1-0549 -01-002
 Property Address: 373 N LATHROP AVE
 Zoning: [I-H](#)
 Flood Zone: [X](#)
 Aldermanic Code: 0
 Other Municipality: 8
 Commissioner Code: [Dr. Priscilla D. Thomas](#)
 Phone: 912-236-0459
 Voting Precinct: 8-7 C
 Elementary School: PORT WENTWORTH ELEMENTARY
 Middle School: MERCER
 High School: Groves
 Zip Code: 31402-0576
 Neighborhood Code: 9900
 Calculated Acreage: 17.30636043
 Land Value: 3188400
 Building Value: 12626700
 Real-estate Value: 15815100
 Sale Price:
 Sale Month: 10
 Sale Day: 06
 Sale Year: 2006
 Legal Description: PT OF LOTS 3,5&7 WATER WORKS T
 Property Card: [Click Here](#)

Tax Parcel: 1-0549-01-002

Colonial Terminals, Inc. (HSI No. 10098)
 Savannah, Georgia

Appendix A
Parcel -002





Owner: COLONIAL TERMINALS INC
PIN: 1-0549 -01-002A
Property Address: 373 N LATHROP AVE
Zoning: [I-H](#)
Flood Zone: [X](#)
Aldermanic Code: 0
Other Municipality
8
Commissioner Code: [Dr. Priscilla D. Thomas](#)
Phone: 912-236-0459
Voting Precinct: 8-7 C
Elementary School: PORT WENTWORTH ELEMENTARY
Middle School: MERCER
High School: Groves
Zip Code: 31402-0576
Neighborhood Code: 9900
Calculated Acreage: 8.25946936
Land Value: 519200
Building Value: 297500
Real-estate Value: 816700
Sale Price:
Sale Month: 10
Sale Day: 06
Sale Year: 2006
Legal Description: LOT B RECOMBINATION OF PIERPON
Property Card: [Click Here](#)

Tax Parcel: 1-0549-01-002A

Colonial Terminals, Inc. (HSI No. 10098)
Savannah, Georgia

Appendix A
Parcel -002A





Owner: COLONIAL TERMINALS INC
PIN: 1-0550 -02-004
Property Address: 373 N LATHROP AVE
Zoning: [I-H](#)
Flood Zone: [AE](#)
Aldermanic Code: 0
Other Municipality
8
Commissioner Code: [Dr. Priscilla D. Thomas](#)
Phone: 912-236-0459
Voting Precinct: 8-7 C
Elementary School: PORT WENTWORTH ELEMENTARY
Middle School: MERCER
High School: Groves
Zip Code: 31402-0576
Neighborhood Code: 17500
Calculated Acreage: 10.80430816
Land Value: 482400
Building Value: 1685100
Real-estate Value: 2167500
Sale Price:
Sale Month: 10
Sale Day: 06
Sale Year: 2006
Legal Description: LOT A RECOMBINATION OF PIERPON
Property Card: [Click Here](#)

Tax Parcel: 1-0550-02-004

Colonial Terminals, Inc. (HSI No. 10098)
Savannah, Georgia

Appendix A
Parcel -004



THIS WARRANTY DEED, made on the 19th day of April, 1977, between PIERPONT-CORBETT BOX COMPANY, INC., a Georgia corporation, hereinafter referred to as Grantor, and COLONIAL LAND COMPANY, also a Georgia corporation, hereinafter referred to as Grantee;

W I T N E S S E T H :

Grantor, for and in consideration of the sum of Ten (\$10.00) Dollars and other good and valuable considerations, to it paid at and before the signing and sealing of these presents, the receipt whereof is hereby acknowledged, has granted, bargained, sold, aliened, conveyed and confirmed, and by these presents does grant, bargain, sell, alien, convey and confirm unto Grantee, its successors and assigns, those parcels of land situate, lying and being in the County of Chatham, State of Georgia, and more fully described in the legal description attached hereto as Exhibit "A" and which is expressly made a part hereof, and also all of Grantor's right, title and interest in and to that certain irrevocable easement over, under, across and through the portion of river bottom and inter-tidal area lying between the bluff line (high water line) of the Savannah River and the channel line of the Savannah River adjacent to the parcels of land described in Exhibit "A" granted by instrument dated August 16, 1976, from the State Properties Commission, for and on behalf of the State of Georgia to Grantor, recorded in the Office of the Secretary of State of Georgia on August 27, 1976, and recorded in the Office of the Clerk of the Superior Court of Chatham County, Georgia, in Deed Book 107-R, folio 865.

To have and to hold the premises, with all and singular the rights, members and appurtenances thereof, to the same belonging, or in anywise appertaining, and also all buildings, sheds, fences and all other building improvements now located upon the above-described land, to the only proper use and benefit of Grantee, its successors and assigns, in fee simple, subject only to the exceptions to title noted in Exhibit "B", which is attached hereto and expressly made a part hereof.

And Grantor, its successors and assigns, shall and will (subject only to the aforesaid exceptions to title noted in Exhibit "B") warrant and forever defend by virtue of these presents, the bargained premises unto Grantee, its successors and assigns, and against Grantor, its successors and assigns and all and every other person or persons.

IN WITNESS WHEREOF, the Grantor has executed this Warranty Deed under seal on the day and year first above written.

PIERPONT-CORBETT BOX COMPANY, INC.

Signed, sealed and delivered in the presence of:

By: [Signature]
President

[Signature]
Unofficial Witness

Attest: [Signature]
Secretary

[Corporate Seal]

[Signature]
Notary Public, Chatham County, Georgia

[Notary's Seal]

MARY J. THOMAS
Notary Public, Chatham County, Ga.
My Commission Expires Mar. 11, 1977



Chatham County, Georgia
Real Estate Transfer Tax
Paid \$ 2000.00 Date 4/20/77
[Signature]
Pop. Clerk of Sup. Court

EXHIBIT "A"

704

PROPERTY DESCRIPTION

PARCEL ONE

ALL that certain lot, tract or parcel of land situate, lying and being in Chatham County, Georgia, containing 22.57 acres and lying between Butler Avenue and the Savannah River as shown on a plat of a 22.57 acre portion of the property of Pierpont-Corbett Box Company located North of North Lathrop Avenue prepared by Hussey, Gay, Bell & McWhorter, Inc., Consulting Engineers, dated December 20, 1976, which has been recorded in Plat Record Book AA, Folio 171, in the Office of the Clerk of the Superior Court of Chatham County, Georgia, and being more particularly described as follows: Beginning at a concrete monument located where the Western right-of-way line of West Lathrop Avenue intersects the Northern right-of-way line of Bulter Avenue; thence North 40°46'40" West along the said Northern right-of-way line of Butler Avenue 558.33 feet to a concrete monument; thence North 48°17'10" East 1575.51 feet to a point (hereinafter sometimes referred to as Point "A"); thence North 75°43' East 72.45 feet to a point; thence South 63°23'50" East 30.41 feet to a point; thence South 52°13' East 100.05 feet to a point; thence South 52°47'20" East 200.04 feet to a point; thence South 61°03'30" East 80.62 feet to a point; thence South 71°22'50" East 73.38 feet to a point; thence South 51°53'50" East 79.95 feet to a point (hereinafter sometimes referred to as Point "B"); thence South 47°50'40" West 1127.89 feet to an old concrete monument; thence South 48°20'20" West 335.42 feet to a concrete monument located on the Northern right-of-way of North Lathrop Avenue; continuing thence South 48°20'20" West 30.60 feet to an old concrete monument; thence North 51°57'40" West 25.41 feet to a point on the Western right-of-way line of West Lathrop Avenue; thence South 48°20'20" West along said Western right-of-way line of West Lathrop Avenue 325.90 feet to a point of beginning.

AND ALSO, all right, title and interest in and to the land lying between the Western boundary line of the above-described 22.57 acre tract of land extended from the aforesaid Point "A" North 48°17'10" East to the mean low water line of the Savannah River and the Eastern boundary line of the above-described tract of land extended from the aforesaid Point "B" North 47°50'40" East to the mean low water mark line of the Savannah River.

Said property as a whole being bounded generally as follows: On the North by the mean low water line of the Savannah River, on the East by the common boundary line between the 22.57 acre tract of land described above and the 7.53 acre tract of land also owned by Pierpont-Corbett Box Company, Inc. and conveyed contemporaneously herewith to Colonial Land Company (Parcel Two below) and a 30-foot wide county road right-of-way, on the South by Butler Avenue and on the West by the common boundary line between the aforesaid 22.57 acre tract of land and lands of Union Camp Corporation.

The above-described property being the same property conveyed to Pierpont-Corbett Box Company, Inc. by the Pierpont Manufacturing Company (formerly known as Pierpont Manufacturing Company of Georgia and Florida) by deed dated March 30, 1964 and recorded in the Office of the Clerk of the Superior Court of Chatham County, Georgia, in Deed Book 85-2, Folio 151.

PARCEL TWO

ALL that certain lot, tract or parcel of land situate, lying and being in Chatham County, Georgia, containing 7.53 acres and lying between North Lathrop Avenue and the Savannah River as shown on a plat of a 7.53 acre portion of the property of Pierpont-Corbett Box Company located North of North Lathrop Avenue prepared by Hussey, Gay, Bell & McWhorter, Inc., Consulting Engineers, dated December 20, 1976, which has been recorded in Plat Record Book AA, Folio 172, in the Office of the Clerk of the Superior Court of Chatham County, Georgia, and being more particularly described as follows: Commencing at a point where the Eastern right-of-way line of West Lathrop Avenue extended intersects the Northern right-of-way line of North Lathrop Avenue; thence North 48°20'20" East 299.41 feet to a concrete monument; thence North 47°50'40" East 180.65 feet to a concrete monument; thence North 42°09'20" West 30 feet to an old concrete monument; thence North 47°50'40" East 947.37 feet to a point (hereinafter sometimes referred to as Point "B") on the Bluff line or approximate mean high water line of the Savannah River; thence 32°32'10" East 46.30 feet to a point; thence South 31°02'30" East 53.14 feet to a point; thence South 65°24'50" East 51.66 feet to a point; thence South 55°24'50" East 50.16 feet to a point; thence South 48°33' East 50.04 feet to a point; thence South 46°16' East 50.16 feet to a point; thence South 46°53'20" East 29.03 feet to a point; thence South 14°16'30" East 17.36 feet to a point

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(hereinafter sometimes referred to as Point "C"); thence South 29°54'40" West 6 feet to an old concrete monument; continuing thence South 29°54'40" West 630.60 feet to a point; thence North 59°54'40" West 150.15 feet to a concrete monument; thence North 29°20'20" East 13.40 feet to a railroad iron; thence North 52°03'40" West 268.69 feet to a railroad iron; thence South 66°22'20" West 97.75 feet to a concrete monument; thence South 45°34'20" West 233.22 feet to a concrete monument; thence North 52°14'40" West 52 feet to a concrete monument; thence South 47°46'20" West 421.35 feet to an old concrete monument located on the Northern right-of-way line on North Lathrop Avenue; thence North 52°07'40" West along the said Northern right-of-way line of North Lathrop Avenue 22.55 feet to the point of beginning.

AND ALSO, all right, title and interest in and to the land lying between the Western boundary line of the above-described 7.53 acre tract of land extended from the aforesaid Point "B" North 47°50'40" East to the mean low water line of the Savannah River and the Eastern boundary line of the above-described tract of land extended from the aforesaid Point "C" North 29°54'40" East to the mean low water line of the Savannah River.

Said property as a whole being irregular in shape and being bounded generally as follows: On the North by the mean low water line of the Savannah River, on the East by the common boundary line between the 7.53 acre tract of land described above and lands formerly of Swift Agricultural Chemicals Corporation now owned by Colonial Land Company, on the East and South by the common boundary line between the 7.53 acre tract of land described above and lands of Colonial Oil Industries, Inc., on the South by North Lathrop Avenue and on the West by a 30-foot wide county road right-of-way and the common boundary line between the 7.53 acre tract of land described above and the 22.57 acre tract of land also owned by Pierpont-Corbett Box Company, Inc. and conveyed contemporaneously herewith to Colonial Land Company (Parcel One above).

Being the same property conveyed to Pierpont-Corbett Box Company, Inc. by the Savannah Port Authority by deed dated July 1, 1976 and recorded in said Clerk's Office in Deed Book 107-A, Folio 802.

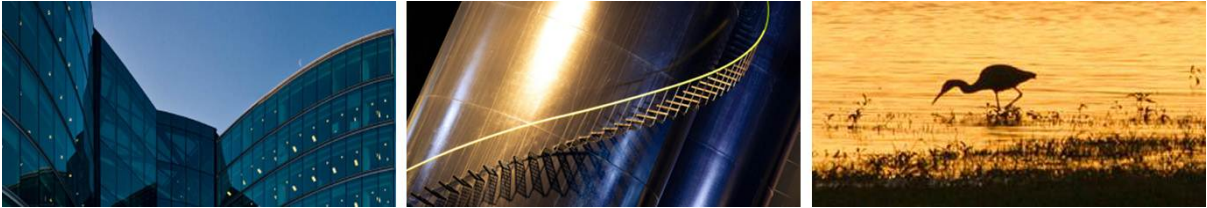
EXCEPTIONS TO TITLE

1. Ad valorem taxes for 1977 and subsequent years.
2. Easements granted to the Mayor and Aldermen of the City of Savannah to install, maintain and operate a water pipeline under and across a portion of the property as shown in Plat Record Book "C", folio 31, in the Office of the Clerk of the Superior Court of Chatham County, Georgia, granted by instruments dated May 9, 1948; June 11, 1948; and August 4, 1948, and recorded in Deed Books 47-B, folio 257; 47-D, folio 258; and 47-M, folio 485, respectively, in said Clerk's Office.
3. Right-of-way easements granted to Seaboard Airline Railroad Company for railroad tracks and any other proper and appropriate railroad purposes across a portion of the property described in instruments dated August 1, 1954 and December 21, 1954, recorded in Deed Books 60-R, folio 5 and 61-H, folio 437, respectively, in said Clerk's Office and as shown on plat recorded in Plat Book F, folio 307, in said Clerk's Office.
4. Easements granted to South Atlantic Gas Company for the construction and maintenance of an underground gas transmission system granted by instrument dated August 30, 1957, recorded in Deed Book 67-U, folio 189, in said Clerk's Office, and as shown on plat recorded in Plat Record Book "H", at folio 325, said Clerk's Office.
5. Easement granted to South Atlantic Gas Company for the construction and maintenance of an underground gas transmission system under, upon and along a five foot wide strip as shown on the plat recorded in said Clerk's Office in Plat Record Book "P", folio 63, as granted by instrument dated April 9, 1964, and recorded in Deed Book 85-X, folio 103, in said Clerk's Office.
6. Right, title or interest of the State of Georgia, if any, in and to the area between the high and low water lines of the Savannah River lying adjacent to the property.

Filed For Record At 2:58 O'Clock ^P.....M. On The
20 Day Of April.....1977
 Recorded In Record Book 108-K Folio 203
 On The.....20 Day Of April.....1977.....

Appendix B

River Dilution Calculations



Appendix B – River Dilution Calculations
Voluntary Remediation Plan and Application
Colonial Terminals, Plant #2

Prepared for:
Colonial Terminals, Inc.
Savannah, Georgia

Prepared by:
ENVIRON International Corporation

November 2012

Project Number:
07-30114B



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Attachment B-1	Summary of Water Levels and Elevations
Attachment B-2	River Dilution Calculations

Acronyms and Abbreviations

11DCE	1,1-Dichloroethylene
cDCE	cis-1,2-Dichloroethylene
ft amsl	Feet Above Mean Sea Level
ISWQS	In-Stream Water Quality Standards
PCE	Tetrachloroethylene
TCE	Trichloroethylene
VC	Vinyl Chloride
VOC	Volatile Organic Compound
VRP	Voluntary Remediation Program

1 Introduction

The Colonial Terminals, Plant #2 (Colonial) property is located on the bank of the tidally-influenced Savannah River. In the Revised Corrective Action Plan for Volatile Organic Compounds (VOCs; ERM, 2009), a mass balance model was developed to estimate whether regulated substances detected in the groundwater in immediate proximity to the Savannah River will naturally attenuate to concentrations that do not pose a risk to ecological or human receptors. A river dilution calculation was conducted, the results of which indicated that concentrations in the river would not exceed the Georgia In-Stream Water Quality Standards (ISWQS). However, modeling was not conducted for other potentially significant regulated substances that have been detected in the groundwater at the site.

As part of the Voluntary Remediation Program (VRP) Application for the Colonial Terminals, Plant #2 site, ENVIRON has provided updated river dilution calculations for the regulated substances that exceeded Type 4 risk reduction standards during the most recent groundwater sampling event (i.e., surface water-detected constituents cis-1,2-dichloroethylene [cDCE]; tetrachloroethylene [PCE]; and trichloroethylene [TCE], and modeled constituents 1,1-dichloroethylene [11DCE]; vinyl chloride [VC]; arsenic; and lead). The following sections present the methodology, parameters, and results of these calculations.

2 Methodology

Based on the groundwater monitoring results provided in Second Corrective Action Effectiveness Report for Groundwater 2010 (ERM, 2011), the plume of VOCs and/or metals in the shallow aquifer along the Savannah River extends approximately from monitoring well location MW-16 to well MW-19. Based on the location of shallow monitoring wells along the river, the width of the plume was divided into six segments (S1 through S6) for the purpose of this assessment (**Figure B-1**). The width of each segment is summarized in **Table 1** below.

Segment	Ends of Segment	Width of Segment (ft)
S1	MW-16 to MW-29	140
S2	MW-29 to MW-11R	98
S3	MW-11R to MW-26	357
S4	MW-26 to MW-25	77
S5	MW-25 to MW-18	189
S6	MW-18 to MW-19	126

The flow of groundwater through each segment (Q_{gn}) and into the Savannah River was calculated as follows:

$$Q_{gn} = k \times i \times W_n \times d$$

where:

k is the hydraulic conductivity of the aquifer;

i is the hydraulic gradient;

W_n is the width of segment n ; and,

d is the thickness of the aquifer.

The mass flux of constituents to the Savannah River through each segment (M_n) was then calculated as:

$$M_n = C_{gn} \times Q_{gn}$$

where: C_{gn} is the constituent concentration in groundwater along segment n .

According to the Mass Conservation Law, the diluted constituent concentration in the Savannah River downstream of the site (C_s) can be calculated using the following equation:

$$C_s = \frac{C_u \times Q_u + \sum_{n=1}^6 M_n}{Q_u + \sum_{n=1}^6 Q_{gn}}$$

where:

C_u is the constituent concentration in Savannah River upstream of the site; and,
 Q_u is the flow volume in Savannah River upstream of the site.

When C_u is assumed to be 0 (i.e., no constituent concentrations in surface water upstream of the site), the equation can be re-written as:

$$C_s = \frac{\sum_{n=1}^6 M_n}{Q_u + \sum_{n=1}^6 Q_{gn}}$$

3 Parameter Values Determination

3.1 Hydraulic Gradient (i)

To evaluate the hydraulic gradient, ERM used data loggers (“trolls”) to continuously record groundwater elevations in MW-12R, MW-09D, and the Savannah River from October 7 through October 21, 2011. The base elevations of the trolls are listed in **Table 2**. The field measurements and converted water levels are provided in **Attachment B-1**.

Table 2. Base of Troll Elevations for October 2011 Water Elevation Measurement			
	TOC Elevation (ft amsl)	Length to Bottom of Troll (ft)	Elevation to Base of Troll (ft amsl)
Savannah River	14.57	29.30	-14.73
MW-09D	11.97	19.80	-7.83
MW-12R	11.80	14.63	-2.83

The 71-hour filtering method, which has the ability to remove the daily and semi-daily lunar and solar harmonics from 71 consecutive hourly water level observations that are tidally affected (Serfes, 1991; and Marquis and Smith, 1994), was used to calculate mean groundwater elevations for each location. This method consists of calculating a set of moving averages using a filtering interval of 24 consecutive hourly groundwater elevation measurements. Multiple sequences of moving averages are calculated to achieve a single mean elevation for the median time of 72 hours (i.e., hour 36) as follows:

Let the consecutive hourly groundwater elevation observations be $h(1), h(2), h(3), \dots, h(71)$:

the first sequence of means (X_j) is

$$X_j = \frac{\sum_{l=0}^{23} h_{j+l}}{24}, \text{ where } j = 1, 2, 3, \dots, 48;$$

the second sequence of means (Y_k) is

$$Y_k = \frac{\sum_{j=0}^{23} X_{k+j}}{24}, \text{ where } k = 1, 2, 3, \dots, 25;$$

and the mean elevation (M_e) at hour 36 is

$$M_e = \frac{\sum_{k=1}^{25} Y_k}{25}$$

For this evaluation, the water elevation data from each location were separated into four 72-hour periods. The calculated mean water elevations and hydraulic gradients are presented in **Table 3** and illustrate that groundwater is flowing from the shallow aquifer into the Savannah River with an average gradient of 0.0015 feet/foot. The average hydraulic gradient for the deep surficial aquifer is -0.0130 feet/foot from MW-09D to the Savannah River and is indicative of

recharge to the aquifer from the river. As such, the river dilution calculation was conducted for the shallow aquifer only.

71-hr Period	Mean Water Elevations (ft amsl)			Hydraulic Gradient (feet/foot)	
	Savannah River	MW-12R	MW-09D	MW-12R to Savannah River	MW-09D to Savannah River
First	2.119	1.782	1.184	-0.0011	-0.0170
Second	1.865	2.274	1.186	0.0014	-0.0123
Third	0.964	1.934	0.381	0.0032	-0.0106
Fourth	1.160	1.952	0.497	0.0026	-0.0121
Average Gradient				0.0015	-0.0130

3.2 Discharge Concentration (C_{gn})

ENVIRON used the analytical results from the 2010 annual groundwater and surface water sampling event (ERM, 2011) to determine the discharge concentration (i.e., the concentration of the constituent that can potentially be discharged from the groundwater to the river) for each segment. Using the assumption that constituent concentrations vary linearly between the two ends of each segment, the discharge concentration for each segment is the average concentration from both ends of the segment. For the purpose of these calculations, non-detect concentrations were assumed to be half the detection limit. A summary of the discharge concentration for each constituent is provided in **Table 4**.

Constituent	Discharge Concentration (ug/L)					
	S1	S2	S3	S4	S5	S6
PCE	3.7	9103	16,400	13,500	6,240	40.6
TCE	1.3	1451	3,620	2,643	490	17.7
cis-1,2-DCE	1.8	2787	2,824	135.2	132.6	36.4
1,1-DCE	0.5	62.8	449	1,792	1,434	29.5
VC	0.5	109	113	29	29	4.5
Arsenic	1.25	1.75	1.0	130.5	131.6	4.1
Lead	0.25	0.5	0.5	680	683	2.75

3.3 Flow Volume in the Savannah River (Q_u)

To be conservative, the 7-day, 10-year average flow (7Q10) of the Savannah River was used as the flow volume upstream of the site. Specifically, the 7Q10 calculation provided for the United States Geological Service's (USGS's) Savannah River station near Clyo, Georgia (6,700 ft³/second for the period April 1961 through March 1974), was used for the purpose of this assessment.

3.4 Additional Parameter Values

The hydraulic conductivity (k ; 9.56 ft/day) and aquifer thickness (d ; 15 ft) from the Revised Corrective Action Plan for Volatile Organic Compounds (ERM, 2009) were used.

4 Results

Based on the methodology and parameter values discussed in Sections 2 and 3, the diluted constituent concentrations in the Savannah River that are a result of the discharge of the shallow surficial aquifer at the site were calculated for chlorinated VOCs (PCE, TCE, cis-1,2-DCE, 1,1-DCE, and VC) and selected metals (arsenic and lead). As discussed in Section 3.1, the negative average hydraulic gradient for the deep surficial aquifer to the Savannah River indicates that recharge to the aquifer from the river is occurring and, as such, no constituents from that aquifer are expected to impact the river.

The calculation sheets are provided in **Attachment B-2**, and a summary of the modeled concentrations in the Savannah River is provided in **Table 5** below, along with the Georgia ISWQS for each constituent.

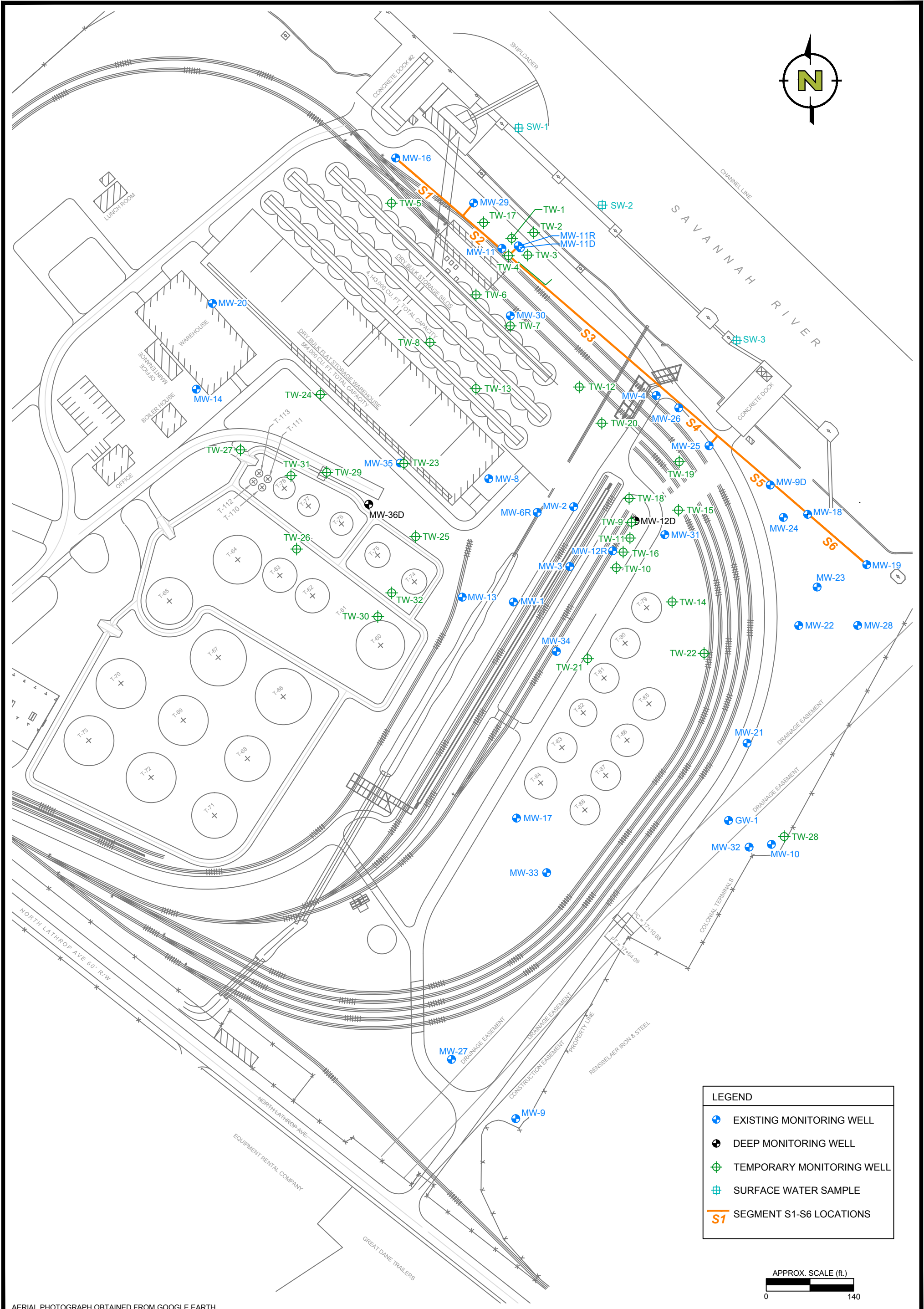
Table 5. Diluted Constituent Concentration in the Savannah River		
Constituent	Concentration (ug/L)	Georgia ISWQS (ug/L) ¹
Arsenic	1.34E-05	150
Lead	6.76E-05	1.2
1,1-Dichloroethylene	2.15E-04	7,100
cis-1,2-Dichloroethylene	4.91E-04	N/A
Tetrachloroethylene	3.33E-03	3.3
Trichloroethylene	6.44E-04	30
Vinyl Chloride	2.21E-05	2.4
Notes:		
1) Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03)		

These results represent conservative estimates of concentrations in the Savannah River that might result from groundwater discharge at the site (biodegradation in the groundwater was not taken into account in these estimates). Further, the results indicate that these concentrations are significantly less than the Georgia ISWQS (i.e., more than three orders of magnitude)..

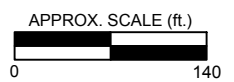
5 References

- ERM (2009). "Revised Corrective Action Plan for Volatile Organic Compounds."
- ERM (2011). "Second Corrective Action Effectiveness Report for Groundwater 2010."
- Serfes, M.E. (1991). "Determining the Mean Hydraulic Gradient of Ground Water Affected by Tidal Fluctuations." *Ground Water* 29(4): 549-555.
- Marquis, S.A. Jr., and Smith, E.A. (1994). "Assessment of Ground-Water Flow and Chemical Transport in a Tidally Influenced Aquifer Using Geostatistical Filtering and Hydrocarbon Fingerprinting." *Ground Water* 32(2): 190-199.

Appendix B Figures



LEGEND	
	EXISTING MONITORING WELL
	DEEP MONITORING WELL
	TEMPORARY MONITORING WELL
	SURFACE WATER SAMPLE
	SEGMENT S1-S6 LOCATIONS



AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH

ENVIRON

DRAFTED BY: APR DATE: 10/2/12

GROUNDWATER MONITORING WELL AND SEGMENT LOCATIONS
 COLONIAL TERMINALS, INC.
 373 N. LATHROP AVENUE
 SAVANNAH, GEORGIA

FIGURE
B-1
 07-30114B

Attachment B-1
Summary of Water Levels and Elevations

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/7/2011 14:00	6.95	4.22	14.42	-0.88	1.39	-0.31
10/7/2011 14:15	7.10	4.21	14.82	-0.73	1.38	0.09
10/7/2011 14:30	7.28	4.21	15.29	-0.56	1.38	0.56
10/7/2011 14:45	7.47	4.21	15.74	-0.36	1.38	1.01
10/7/2011 15:00	7.68	4.21	16.21	-0.15	1.38	1.48
10/7/2011 15:15	7.92	4.21	16.69	0.09	1.38	1.96
10/7/2011 15:30	8.16	4.22	17.09	0.33	1.39	2.36
10/7/2011 15:45	8.40	4.23	17.56	0.57	1.40	2.83
10/7/2011 16:00	8.65	4.24	17.98	0.82	1.41	3.25
10/7/2011 16:15	8.89	4.25	18.30	1.06	1.42	3.57
10/7/2011 16:30	9.11	4.27	18.58	1.28	1.44	3.85
10/7/2011 16:45	9.31	4.28	18.88	1.48	1.45	4.15
10/7/2011 17:00	9.49	4.30	19.01	1.66	1.47	4.28
10/7/2011 17:15	9.67	4.33	19.21	1.84	1.50	4.48
10/7/2011 17:30	9.82	4.35	19.40	1.99	1.52	4.67
10/7/2011 17:45	9.96	4.33	19.49	2.13	1.50	4.76
10/7/2011 18:00	10.09	4.31	19.63	2.26	1.48	4.90
10/7/2011 18:15	10.21	4.36	19.68	2.38	1.53	4.95
10/7/2011 18:30	10.32	4.41	19.79	2.49	1.58	5.06
10/7/2011 18:45	10.40	4.44	19.84	2.57	1.61	5.11
10/7/2011 19:00	10.48	4.47	19.85	2.65	1.64	5.12
10/7/2011 19:15	10.54	4.51	19.78	2.71	1.68	5.05
10/7/2011 19:30	10.56	4.53	19.66	2.73	1.70	4.93
10/7/2011 19:45	10.59	4.55	19.61	2.76	1.72	4.88
10/7/2011 20:00	10.59	4.57	19.53	2.76	1.74	4.80
10/7/2011 20:15	10.58	4.59	19.36	2.75	1.76	4.63
10/7/2011 20:30	10.55	4.63	19.19	2.72	1.80	4.46
10/7/2011 20:45	10.49	4.65	18.92	2.66	1.82	4.19
10/7/2011 21:00	10.41	4.66	18.62	2.58	1.83	3.89
10/7/2011 21:15	10.31	4.67	18.25	2.48	1.84	3.52
10/7/2011 21:30	10.17	4.68	17.79	2.34	1.85	3.06
10/7/2011 21:45	10.01	4.69	17.37	2.18	1.86	2.64
10/7/2011 22:00	9.82	4.69	16.90	1.99	1.86	2.17
10/7/2011 22:15	9.58	4.69	16.39	1.75	1.86	1.66
10/7/2011 22:30	9.32	4.68	15.74	1.49	1.85	1.01
10/7/2011 22:45	9.05	4.67	15.34	1.22	1.84	0.61
10/7/2011 23:00	8.77	4.66	14.86	0.94	1.83	0.13
10/7/2011 23:15	8.50	4.64	14.48	0.67	1.81	-0.25
10/7/2011 23:30	8.24	4.62	13.89	0.41	1.79	-0.84
10/7/2011 23:45	7.98	4.60	13.65	0.15	1.77	-1.08

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/8/2011 0:00	7.74	4.57	13.34	-0.09	1.74	-1.39
10/8/2011 0:15	7.50	4.54	13.03	-0.33	1.71	-1.70
10/8/2011 0:30	7.29	4.50	12.81	-0.54	1.67	-1.92
10/8/2011 0:45	7.10	4.47	12.70	-0.73	1.64	-2.03
10/8/2011 1:00	6.96	4.43	12.79	-0.87	1.60	-1.94
10/8/2011 1:15	6.85	4.41	12.81	-0.98	1.58	-1.92
10/8/2011 1:30	6.79	4.38	13.01	-1.04	1.55	-1.72
10/8/2011 1:45	6.78	4.35	13.42	-1.05	1.52	-1.31
10/8/2011 2:00	6.83	4.33	13.41	-1.00	1.50	-1.32
10/8/2011 2:15	6.89	4.32	14.05	-0.94	1.49	-0.68
10/8/2011 2:30	7.00	4.30	14.37	-0.83	1.47	-0.36
10/8/2011 2:45	7.16	4.30	14.85	-0.67	1.47	0.12
10/8/2011 3:00	7.35	4.30	15.27	-0.48	1.47	0.54
10/8/2011 3:15	7.54	4.29	15.75	-0.30	1.46	1.02
10/8/2011 3:30	7.74	4.29	16.22	-0.09	1.46	1.49
10/8/2011 3:45	7.97	4.29	16.60	0.14	1.46	1.87
10/8/2011 4:00	8.19	4.29	17.11	0.36	1.46	2.38
10/8/2011 4:15	8.44	4.30	17.58	0.61	1.47	2.85
10/8/2011 4:30	8.68	4.31	17.92	0.85	1.48	3.19
10/8/2011 4:45	8.92	4.32	18.20	1.09	1.49	3.47
10/8/2011 5:00	9.14	4.36	18.50	1.31	1.53	3.77
10/8/2011 5:15	9.35	4.37	18.88	1.52	1.54	4.15
10/8/2011 5:30	9.54	4.40	19.02	1.71	1.57	4.29
10/8/2011 5:45	9.71	4.42	19.16	1.88	1.59	4.43
10/8/2011 6:00	9.85	4.44	19.27	2.02	1.61	4.54
10/8/2011 6:15	9.98	4.45	19.39	2.15	1.62	4.66
10/8/2011 6:30	10.09	4.47	19.47	2.26	1.64	4.74
10/8/2011 6:45	10.19	4.49	19.57	2.36	1.66	4.84
10/8/2011 7:00	10.29	4.51	19.59	2.46	1.68	4.86
10/8/2011 7:15	10.38	4.54	19.58	2.55	1.71	4.85
10/8/2011 7:30	10.43	4.56	19.48	2.60	1.73	4.75
10/8/2011 7:45	10.47	4.59	19.47	2.64	1.76	4.74
10/8/2011 8:00	10.50	4.61	19.37	2.67	1.78	4.64
10/8/2011 8:15	10.50	4.63	19.30	2.67	1.80	4.57
10/8/2011 8:30	10.49	4.65	19.16	2.66	1.82	4.43
10/8/2011 8:45	10.46	4.66	18.98	2.63	1.83	4.25
10/8/2011 9:00	10.42	4.68	18.69	2.59	1.85	3.96
10/8/2011 9:15	10.35	4.69	18.38	2.52	1.86	3.65
10/8/2011 9:30	10.24	4.70	18.08	2.41	1.87	3.35
10/8/2011 9:45	10.10	4.71	17.64	2.27	1.88	2.91

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/8/2011 10:00	9.94	4.71	17.32	2.11	1.88	2.59
10/8/2011 10:15	9.76	4.71	16.90	1.93	1.88	2.17
10/8/2011 10:30	9.55	4.71	16.45	1.72	1.88	1.72
10/8/2011 10:45	9.32	4.70	16.01	1.49	1.87	1.28
10/8/2011 11:00	9.09	4.70	15.57	1.26	1.87	0.84
10/8/2011 11:15	8.84	4.68	15.13	1.01	1.85	0.40
10/8/2011 11:30	8.58	4.66	14.70	0.75	1.83	-0.03
10/8/2011 11:45	8.34	4.64	14.30	0.51	1.81	-0.43
10/8/2011 12:00	8.09	4.62	13.88	0.26	1.79	-0.85
10/8/2011 12:15	7.85	4.60	13.58	0.02	1.77	-1.15
10/8/2011 12:30	7.63	4.57	13.31	-0.20	1.74	-1.42
10/8/2011 12:45	7.42	4.54	13.13	-0.41	1.71	-1.60
10/8/2011 13:00	7.26	4.52	13.13	-0.58	1.69	-1.60
10/8/2011 13:15	7.13	4.49	13.08	-0.70	1.66	-1.65
10/8/2011 13:30	7.03	4.47	13.06	-0.80	1.64	-1.67
10/8/2011 13:45	6.95	4.45	13.15	-0.88	1.62	-1.58
10/8/2011 14:00	6.92	4.43	13.40	-0.91	1.60	-1.33
10/8/2011 14:15	6.93	4.40	13.56	-0.90	1.57	-1.17
10/8/2011 14:30	6.96	4.39	13.81	-0.87	1.56	-0.93
10/8/2011 14:45	7.02	4.37	14.03	-0.81	1.54	-0.70
10/8/2011 15:00	7.10	4.36	14.33	-0.73	1.53	-0.40
10/8/2011 15:15	7.21	4.35	14.72	-0.62	1.52	-0.01
10/8/2011 15:30	7.35	4.34	15.11	-0.48	1.51	0.38
10/8/2011 15:45	7.50	4.33	15.56	-0.33	1.50	0.83
10/8/2011 16:00	7.69	4.32	16.03	-0.14	1.49	1.30
10/8/2011 16:15	7.90	4.32	16.43	0.07	1.49	1.70
10/8/2011 16:30	8.12	4.32	16.95	0.29	1.49	2.22
10/8/2011 16:45	8.36	4.33	17.33	0.53	1.50	2.60
10/8/2011 17:00	8.60	4.34	17.73	0.77	1.51	3.00
10/8/2011 17:15	8.83	4.35	18.07	1.00	1.52	3.34
10/8/2011 17:30	9.05	4.37	18.40	1.22	1.54	3.67
10/8/2011 17:45	9.27	4.39	18.65	1.44	1.56	3.92
10/8/2011 18:00	9.46	4.41	18.85	1.63	1.58	4.12
10/8/2011 18:15	9.64	4.43	19.10	1.81	1.60	4.37
10/8/2011 18:30	9.81	4.45	19.30	1.98	1.62	4.57
10/8/2011 18:45	9.97	4.48	19.48	2.14	1.65	4.75
10/8/2011 19:00	10.12	4.50	19.62	2.29	1.67	4.89
10/8/2011 19:15	10.26	4.54	19.73	2.43	1.71	5.00
10/8/2011 19:30	10.38	4.56	19.81	2.55	1.73	5.08
10/8/2011 19:45	10.48	4.59	19.82	2.65	1.76	5.09

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/8/2011 20:00	10.55	4.62	19.77	2.72	1.79	5.04
10/8/2011 20:15	10.60	4.64	19.78	2.77	1.81	5.05
10/8/2011 20:30	10.64	4.67	19.66	2.81	1.84	4.93
10/8/2011 20:45	10.67	4.70	19.63	2.84	1.87	4.90
10/8/2011 21:00	10.69	4.72	19.54	2.86	1.89	4.81
10/8/2011 21:15	10.69	4.74	19.39	2.86	1.91	4.66
10/8/2011 21:30	10.65	4.76	19.10	2.82	1.93	4.37
10/8/2011 21:45	10.58	4.78	18.75	2.75	1.95	4.02
10/8/2011 22:00	10.48	4.80	18.42	2.65	1.97	3.69
10/8/2011 22:15	10.36	4.81	18.09	2.53	1.98	3.36
10/8/2011 22:30	10.21	4.82	17.63	2.38	1.99	2.90
10/8/2011 22:45	10.02	4.83	17.17	2.19	2.00	2.44
10/8/2011 23:00	9.80	4.83	16.70	1.97	2.00	1.97
10/8/2011 23:15	9.57	4.83	16.22	1.74	2.00	1.49
10/8/2011 23:30	9.31	4.82	15.73	1.48	1.99	1.00
10/8/2011 23:45	9.05	4.81	15.23	1.22	1.98	0.50
10/9/2011 0:00	8.78	4.79	14.75	0.95	1.96	0.02
10/9/2011 0:15	8.50	4.77	14.34	0.67	1.94	-0.39
10/9/2011 0:30	8.24	4.75	13.95	0.41	1.92	-0.78
10/9/2011 0:45	7.99	4.72	13.62	0.16	1.89	-1.11
10/9/2011 1:00	7.76	4.70	13.37	-0.08	1.87	-1.36
10/9/2011 1:15	7.54	4.67	13.14	-0.29	1.84	-1.59
10/9/2011 1:30	7.33	4.63	12.96	-0.50	1.80	-1.78
10/9/2011 1:45	7.16	4.60	12.90	-0.67	1.77	-1.83
10/9/2011 2:00	7.04	4.57	12.93	-0.80	1.74	-1.80
10/9/2011 2:15	6.94	4.54	12.95	-0.89	1.71	-1.78
10/9/2011 2:30	6.88	4.51	13.08	-0.95	1.68	-1.65
10/9/2011 2:45	6.86	4.48	13.34	-0.97	1.65	-1.39
10/9/2011 3:00	6.88	4.46	13.56	-0.95	1.63	-1.17
10/9/2011 3:15	6.95	4.44	14.04	-0.88	1.61	-0.69
10/9/2011 3:30	7.08	4.43	14.49	-0.75	1.60	-0.24
10/9/2011 3:45	7.23	4.41	14.92	-0.60	1.58	0.19
10/9/2011 4:00	7.40	4.40	15.40	-0.43	1.57	0.67
10/9/2011 4:15	7.61	4.39	15.94	-0.22	1.56	1.21
10/9/2011 4:30	7.85	4.39	16.45	0.02	1.56	1.72
10/9/2011 4:45	8.11	4.39	16.97	0.28	1.56	2.24
10/9/2011 5:00	8.37	4.39	17.49	0.54	1.56	2.76
10/9/2011 5:15	8.64	4.41	17.96	0.81	1.58	3.23
10/9/2011 5:30	8.92	4.42	18.37	1.09	1.59	3.64
10/9/2011 5:45	9.18	4.43	18.78	1.35	1.60	4.05

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/9/2011 6:00	9.42	4.45	19.09	1.59	1.62	4.36
10/9/2011 6:15	9.65	4.48	19.28	1.82	1.65	4.55
10/9/2011 6:30	9.85	4.50	19.44	2.02	1.67	4.71
10/9/2011 6:45	10.03	4.53	19.64	2.20	1.70	4.91
10/9/2011 7:00	10.18	4.55	19.85	2.35	1.72	5.12
10/9/2011 7:15	10.33	4.58	19.91	2.50	1.75	5.18
10/9/2011 7:30	10.45	4.61	20.02	2.62	1.78	5.29
10/9/2011 7:45	10.57	4.64	20.07	2.74	1.81	5.34
10/9/2011 8:00	10.67	4.66	20.07	2.84	1.83	5.34
10/9/2011 8:15	10.75	4.69	20.00	2.92	1.86	5.27
10/9/2011 8:30	10.80	4.72	20.00	2.97	1.89	5.27
10/9/2011 8:45	10.85	4.75	20.05	3.02	1.92	5.32
10/9/2011 9:00	10.89	4.78	19.91	3.06	1.95	5.18
10/9/2011 9:15	10.89	4.80	19.56	3.06	1.97	4.83
10/9/2011 9:30	10.85	4.82	19.40	3.02	1.99	4.67
10/9/2011 9:45	10.79	4.84	19.17	2.96	2.01	4.44
10/9/2011 10:00	10.72	4.87	18.90	2.89	2.04	4.17
10/9/2011 10:15	10.63	4.89	18.61	2.80	2.06	3.88
10/9/2011 10:30	10.51	4.90	18.30	2.68	2.07	3.57
10/9/2011 10:45	10.37	4.91	17.86	2.54	2.08	3.13
10/9/2011 11:00	10.18	4.91	17.38	2.35	2.08	2.65
10/9/2011 11:15	9.96	4.91	16.91	2.13	2.08	2.18
10/9/2011 11:30	9.73	4.91	16.53	1.90	2.08	1.80
10/9/2011 11:45	9.49	4.91	15.77	1.66	2.08	1.04
10/9/2011 12:00	9.25	4.90	15.58	1.42	2.07	0.84
10/9/2011 12:15	9.00	4.88	15.25	1.17	2.05	0.52
10/9/2011 12:30	8.75	4.86	14.87	0.92	2.03	0.14
10/9/2011 12:45	8.53	4.84	14.61	0.70	2.01	-0.12
10/9/2011 13:00	8.31	4.82	14.24	0.48	1.99	-0.49
10/9/2011 13:15	8.10	4.80	14.01	0.27	1.97	-0.72
10/9/2011 13:30	7.91	4.77	13.79	0.08	1.94	-0.94
10/9/2011 13:45	7.74	4.75	13.63	-0.09	1.92	-1.10
10/9/2011 14:00	7.58	4.72	13.50	-0.25	1.89	-1.23
10/9/2011 14:15	7.44	4.69	13.43	-0.39	1.86	-1.30
10/9/2011 14:30	7.32	4.65	13.46	-0.51	1.82	-1.27
10/9/2011 14:45	7.24	4.62	13.48	-0.59	1.79	-1.25
10/9/2011 15:00	7.19	4.60	13.60	-0.64	1.77	-1.13
10/9/2011 15:15	7.18	4.57	13.90	-0.65	1.74	-0.83
10/9/2011 15:30	7.22	4.55	14.20	-0.61	1.72	-0.53
10/9/2011 15:45	7.29	4.53	14.50	-0.54	1.70	-0.23

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/9/2011 16:00	7.39	4.51	14.90	-0.44	1.68	0.17
10/9/2011 16:15	7.53	4.50	15.24	-0.30	1.67	0.51
10/9/2011 16:30	7.68	4.49	15.62	-0.15	1.66	0.89
10/9/2011 16:45	7.86	4.49	16.06	0.03	1.66	1.33
10/9/2011 17:00	8.05	4.49	16.55	0.22	1.66	1.82
10/9/2011 17:15	8.28	4.49	17.11	0.45	1.66	2.38
10/9/2011 17:30	8.53	4.49	17.63	0.70	1.66	2.90
10/9/2011 17:45	8.80	4.50	18.10	0.97	1.67	3.37
10/9/2011 18:00	9.06	4.51	18.46	1.23	1.68	3.73
10/9/2011 18:15	9.31	4.53	18.85	1.48	1.70	4.12
10/9/2011 18:30	9.54	4.54	19.14	1.71	1.71	4.41
10/9/2011 18:45	9.77	4.57	19.27	1.94	1.74	4.54
10/9/2011 19:00	9.95	4.60	19.52	2.12	1.77	4.79
10/9/2011 19:15	10.12	4.62	19.68	2.29	1.79	4.95
10/9/2011 19:30	10.29	4.65	19.89	2.46	1.82	5.16
10/9/2011 19:45	10.47	4.69	20.06	2.64	1.86	5.33
10/9/2011 20:00	10.61	4.72	20.07	2.78	1.89	5.34
10/9/2011 20:15	10.71	4.75	20.12	2.88	1.92	5.39
10/9/2011 20:30	10.81	4.79	20.16	2.98	1.96	5.43
10/9/2011 20:45	10.90	4.82	20.23	3.07	1.99	5.50
10/9/2011 21:00	10.99	4.85	20.30	3.16	2.02	5.57
10/9/2011 21:15	11.06	4.88	20.30	3.23	2.05	5.57
10/9/2011 21:30	11.12	4.91	20.10	3.29	2.08	5.37
10/9/2011 21:45	11.12	4.94	19.93	3.29	2.11	5.20
10/9/2011 22:00	11.10	4.97	19.83	3.27	2.14	5.10
10/9/2011 22:15	11.09	4.99	19.78	3.26	2.16	5.05
10/9/2011 22:30	11.06	5.01	19.60	3.23	2.18	4.87
10/9/2011 22:45	11.02	5.03	19.42	3.19	2.20	4.69
10/9/2011 23:00	10.96	5.05	19.09	3.13	2.22	4.36
10/9/2011 23:15	10.86	5.06	18.69	3.03	2.23	3.96
10/9/2011 23:30	10.70	5.08	18.21	2.87	2.25	3.48
10/9/2011 23:45	10.51	5.08	17.73	2.68	2.25	3.00
10/10/2011 0:00	10.29	5.08	17.26	2.46	2.25	2.53
10/10/2011 0:15	10.05	5.09	16.79	2.22	2.26	2.06
10/10/2011 0:30	9.82	5.08	16.47	1.99	2.25	1.74
10/10/2011 0:45	9.58	5.07	15.97	1.75	2.24	1.24
10/10/2011 1:00	9.33	5.06	15.51	1.50	2.23	0.78
10/10/2011 1:15	9.07	5.04	15.10	1.24	2.21	0.37
10/10/2011 1:30	8.79	5.01	14.68	0.96	2.18	-0.05
10/10/2011 1:45	8.53	4.99	14.23	0.70	2.16	-0.50

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/10/2011 2:00	8.28	4.97	13.85	0.45	2.14	-0.88
10/10/2011 2:15	8.02	4.93	13.53	0.19	2.10	-1.20
10/10/2011 2:30	7.79	4.90	13.36	-0.04	2.07	-1.37
10/10/2011 2:45	7.59	4.86	13.28	-0.24	2.03	-1.45
10/10/2011 3:00	7.46	4.83	13.41	-0.38	2.00	-1.32
10/10/2011 3:15	7.38	4.80	13.63	-0.45	1.97	-1.10
10/10/2011 3:30	7.37	4.77	14.08	-0.46	1.94	-0.65
10/10/2011 3:45	7.43	4.74	14.59	-0.40	1.91	-0.14
10/10/2011 4:00	7.55	4.71	14.99	-0.28	1.88	0.26
10/10/2011 4:15	7.69	4.69	15.35	-0.14	1.86	0.62
10/10/2011 4:30	7.85	4.68	15.69	0.02	1.85	0.96
10/10/2011 4:45	8.04	4.67	16.32	0.21	1.84	1.59
10/10/2011 5:00	8.25	4.66	16.80	0.42	1.83	2.07
10/10/2011 5:15	8.50	4.66	17.28	0.67	1.83	2.55
10/10/2011 5:30	8.77	4.66	17.93	0.94	1.83	3.20
10/10/2011 5:45	9.06	4.66	18.53	1.23	1.83	3.80
10/10/2011 6:00	9.37	4.68	19.01	1.54	1.85	4.28
10/10/2011 6:15	9.64	4.69	19.25	1.81	1.86	4.52
10/10/2011 6:30	9.87	4.71	19.49	2.04	1.88	4.76
10/10/2011 6:45	10.09	4.74	19.70	2.26	1.91	4.97
10/10/2011 7:00	10.29	4.77	19.83	2.46	1.94	5.10
10/10/2011 7:15	10.47	4.80	20.04	2.64	1.97	5.31
10/10/2011 7:30	10.63	4.84	20.14	2.80	2.01	5.41
10/10/2011 7:45	10.77	4.87	20.29	2.94	2.04	5.56
10/10/2011 8:00	10.91	4.90	20.42	3.08	2.07	5.69
10/10/2011 8:15	11.02	4.93	20.51	3.19	2.10	5.78
10/10/2011 8:30	11.14	4.96	20.58	3.31	2.13	5.85
10/10/2011 8:45	11.26	5.00	20.73	3.43	2.17	6.00
10/10/2011 9:00	11.37	5.04	20.83	3.54	2.21	6.10
10/10/2011 9:15	11.47	5.07	20.84	3.64	2.24	6.11
10/10/2011 9:30	11.54	5.10	20.85	3.71	2.27	6.12
10/10/2011 9:45	11.61	5.14	20.84	3.78	2.31	6.11
10/10/2011 10:00	11.65	5.17	20.74	3.82	2.34	6.01
10/10/2011 10:15	11.66	5.20	20.55	3.83	2.37	5.82
10/10/2011 10:30	11.65	5.22	20.42	3.82	2.39	5.69
10/10/2011 10:45	11.62	5.25	20.23	3.79	2.42	5.50
10/10/2011 11:00	11.57	5.27	20.03	3.74	2.44	5.30
10/10/2011 11:15	11.51	5.30	19.79	3.68	2.47	5.06
10/10/2011 11:30	11.42	5.31	19.59	3.59	2.48	4.86
10/10/2011 11:45	11.33	5.32	19.27	3.50	2.49	4.54

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/10/2011 12:00	11.21	5.33	18.93	3.38	2.50	4.20
10/10/2011 12:15	11.04	5.34	18.52	3.21	2.51	3.79
10/10/2011 12:30	10.86	5.34	18.12	3.03	2.51	3.39
10/10/2011 12:45	10.65	5.33	17.65	2.82	2.50	2.92
10/10/2011 13:00	10.43	5.33	17.28	2.60	2.50	2.55
10/10/2011 13:15	10.21	5.32	16.93	2.38	2.49	2.20
10/10/2011 13:30	9.99	5.32	16.58	2.16	2.49	1.85
10/10/2011 13:45	9.77	5.30	16.26	1.94	2.47	1.53
10/10/2011 14:00	9.58	5.28	16.02	1.75	2.45	1.29
10/10/2011 14:15	9.38	5.26	15.82	1.55	2.43	1.09
10/10/2011 14:30	9.21	5.24	15.61	1.38	2.41	0.88
10/10/2011 14:45	9.04	5.22	15.37	1.21	2.39	0.64
10/10/2011 15:00	8.86	5.19	15.11	1.03	2.36	0.38
10/10/2011 15:15	8.70	5.16	14.97	0.87	2.33	0.24
10/10/2011 15:30	8.55	5.14	14.86	0.72	2.31	0.13
10/10/2011 15:45	8.44	5.11	14.88	0.61	2.28	0.15
10/10/2011 16:00	8.35	5.08	14.87	0.52	2.25	0.14
10/10/2011 16:15	8.29	5.05	15.08	0.46	2.22	0.35
10/10/2011 16:30	8.28	5.02	15.34	0.45	2.19	0.61
10/10/2011 16:45	8.31	5.00	15.59	0.48	2.17	0.86
10/10/2011 17:00	8.37	4.98	15.89	0.54	2.15	1.16
10/10/2011 17:15	8.46	4.95	16.24	0.63	2.12	1.51
10/10/2011 17:30	8.58	4.93	16.58	0.75	2.10	1.85
10/10/2011 17:45	8.72	4.92	16.94	0.89	2.09	2.21
10/10/2011 18:00	8.88	4.91	17.34	1.05	2.08	2.61
10/10/2011 18:15	9.08	4.90	17.74	1.25	2.07	3.01
10/10/2011 18:30	9.28	4.91	18.13	1.45	2.08	3.40
10/10/2011 18:45	9.49	4.92	18.52	1.66	2.09	3.79
10/10/2011 19:00	9.71	4.92	18.94	1.88	2.09	4.21
10/10/2011 19:15	9.94	4.94	19.23	2.11	2.11	4.50
10/10/2011 19:30	10.15	4.95	19.47	2.32	2.12	4.74
10/10/2011 19:45	10.35	4.98	19.66	2.52	2.15	4.93
10/10/2011 20:00	10.51	5.01	19.77	2.68	2.18	5.04
10/10/2011 20:15	10.65	5.04	19.84	2.82	2.21	5.11
10/10/2011 20:30	10.77	5.07	19.95	2.94	2.24	5.22
10/10/2011 20:45	10.89	5.09	20.14	3.06	2.26	5.41
10/10/2011 21:00	11.03	5.13	20.39	3.20	2.30	5.66
10/10/2011 21:15	11.19	5.17	20.63	3.36	2.34	5.90
10/10/2011 21:30	11.34	5.22	20.71	3.51	2.39	5.98
10/10/2011 21:45	11.45	5.25	20.67	3.62	2.42	5.94

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/10/2011 22:00	11.51	5.27	20.66	3.68	2.44	5.93
10/10/2011 22:15	11.56	5.30	20.56	3.73	2.47	5.83
10/10/2011 22:30	11.59	5.32	20.45	3.76	2.49	5.72
10/10/2011 22:45	11.59	5.35	20.26	3.76	2.52	5.53
10/10/2011 23:00	11.56	5.38	20.02	3.73	2.55	5.29
10/10/2011 23:15	11.49	5.40	19.75	3.66	2.57	5.02
10/10/2011 23:30	11.41	5.42	19.48	3.58	2.59	4.75
10/10/2011 23:45	11.30	5.43	19.18	3.47	2.60	4.45
10/11/2011 0:00	11.17	5.45	18.79	3.34	2.62	4.06
10/11/2011 0:15	11.02	5.46	18.40	3.19	2.63	3.67
10/11/2011 0:30	10.84	5.47	18.01	3.01	2.64	3.28
10/11/2011 0:45	10.64	5.47	17.61	2.81	2.64	2.88
10/11/2011 1:00	10.42	5.46	17.09	2.59	2.63	2.36
10/11/2011 1:15	10.16	5.45	16.57	2.33	2.62	1.84
10/11/2011 1:30	9.89	5.44	16.07	2.06	2.61	1.34
10/11/2011 1:45	9.60	5.43	15.58	1.77	2.60	0.85
10/11/2011 2:00	9.32	5.40	15.13	1.49	2.57	0.40
10/11/2011 2:15	9.03	5.38	14.74	1.20	2.55	0.01
10/11/2011 2:30	8.76	5.35	14.36	0.93	2.52	-0.37
10/11/2011 2:45	8.50	5.32	13.99	0.67	2.49	-0.74
10/11/2011 3:00	8.26	5.29	13.73	0.43	2.46	-1.00
10/11/2011 3:15	8.03	5.25	13.53	0.20	2.42	-1.20
10/11/2011 3:30	7.83	5.21	13.45	0.00	2.38	-1.28
10/11/2011 3:45	7.68	5.17	13.42	-0.15	2.34	-1.32
10/11/2011 4:00	7.56	5.14	13.50	-0.27	2.31	-1.23
10/11/2011 4:15	7.50	5.10	13.77	-0.33	2.27	-0.97
10/11/2011 4:30	7.49	5.06	14.11	-0.35	2.23	-0.62
10/11/2011 4:45	7.53	5.03	14.54	-0.30	2.20	-0.20
10/11/2011 5:00	7.64	5.00	14.97	-0.20	2.17	0.24
10/11/2011 5:15	7.78	4.97	15.50	-0.05	2.14	0.77
10/11/2011 5:30	7.96	4.94	16.06	0.13	2.11	1.33
10/11/2011 5:45	8.18	4.92	16.60	0.35	2.09	1.87
10/11/2011 6:00	8.43	4.92	17.11	0.60	2.09	2.38
10/11/2011 6:15	8.69	4.93	17.65	0.86	2.10	2.92
10/11/2011 6:30	8.97	4.93	18.16	1.14	2.10	3.43
10/11/2011 6:45	9.26	4.96	18.61	1.43	2.13	3.88
10/11/2011 7:00	9.54	4.97	19.02	1.71	2.14	4.29
10/11/2011 7:15	9.80	4.97	19.36	1.97	2.14	4.63
10/11/2011 7:30	10.04	4.98	19.61	2.21	2.15	4.88
10/11/2011 7:45	10.26	5.02	19.82	2.43	2.19	5.09

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/11/2011 8:00	10.45	5.06	19.97	2.62	2.23	5.24
10/11/2011 8:15	10.62	5.09	20.13	2.79	2.26	5.40
10/11/2011 8:30	10.78	5.13	20.25	2.95	2.30	5.52
10/11/2011 8:45	10.91	5.17	20.31	3.08	2.34	5.58
10/11/2011 9:00	11.03	5.20	20.44	3.20	2.37	5.71
10/11/2011 9:15	11.14	5.23	20.49	3.31	2.40	5.76
10/11/2011 9:30	11.23	5.25	20.32	3.40	2.42	5.59
10/11/2011 9:45	11.29	5.29	20.47	3.46	2.46	5.74
10/11/2011 10:00	11.33	5.32	20.28	3.50	2.49	5.55
10/11/2011 10:15	11.34	5.36	20.04	3.51	2.53	5.31
10/11/2011 10:30	11.33	5.38	19.85	3.50	2.55	5.12
10/11/2011 10:45	11.28	5.40	19.67	3.45	2.57	4.94
10/11/2011 11:00	11.20	5.42	19.36	3.37	2.59	4.63
10/11/2011 11:15	11.10	5.45	19.01	3.27	2.62	4.28
10/11/2011 11:30	10.99	5.47	18.72	3.16	2.64	3.99
10/11/2011 11:45	10.85	5.49	18.18	3.02	2.66	3.45
10/11/2011 12:00	10.68	5.51	17.85	2.85	2.68	3.12
10/11/2011 12:15	10.48	5.52	17.39	2.65	2.69	2.66
10/11/2011 12:30	10.25	5.53	16.84	2.42	2.70	2.11
10/11/2011 12:45	10.00	5.52	16.41	2.17	2.69	1.68
10/11/2011 13:00	9.73	5.50	15.88	1.90	2.67	1.15
10/11/2011 13:15	9.44	5.45	15.42	1.61	2.62	0.69
10/11/2011 13:30	9.16	5.37	14.92	1.33	2.54	0.19
10/11/2011 13:45	8.88	5.38	14.57	1.05	2.55	-0.16
10/11/2011 14:00	8.61	5.38	14.12	0.78	2.55	-0.61
10/11/2011 14:15	8.33	5.35	13.73	0.50	2.52	-1.00
10/11/2011 14:30	8.06	5.32	13.25	0.23	2.49	-1.49
10/11/2011 14:45	7.79	5.28	12.92	-0.04	2.45	-1.81
10/11/2011 15:00	7.54	5.25	12.70	-0.29	2.42	-2.03
10/11/2011 15:15	7.31	5.21	12.48	-0.52	2.38	-2.25
10/11/2011 15:30	7.12	5.16	12.37	-0.71	2.33	-2.36
10/11/2011 15:45	6.96	5.13	12.40	-0.87	2.30	-2.33
10/11/2011 16:00	6.85	5.09	12.56	-0.98	2.26	-2.17
10/11/2011 16:15	6.80	5.05	12.85	-1.03	2.22	-1.88
10/11/2011 16:30	6.81	5.02	13.22	-1.02	2.19	-1.51
10/11/2011 16:45	6.87	4.99	13.75	-0.96	2.16	-0.98
10/11/2011 17:00	6.98	4.96	14.07	-0.85	2.13	-0.66
10/11/2011 17:15	7.13	4.93	14.57	-0.70	2.10	-0.17
10/11/2011 17:30	7.32	4.90	15.12	-0.51	2.07	0.39
10/11/2011 17:45	7.53	4.88	15.69	-0.30	2.05	0.96

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/11/2011 18:00	7.77	4.87	16.17	-0.06	2.04	1.44
10/11/2011 18:15	8.01	4.81	16.72	0.18	1.98	1.99
10/11/2011 18:30	8.27	4.82	17.16	0.44	1.99	2.43
10/11/2011 18:45	8.54	4.80	17.62	0.71	1.97	2.89
10/11/2011 19:00	8.81	4.81	18.03	0.98	1.98	3.30
10/11/2011 19:15	9.07	4.83	18.44	1.24	2.00	3.71
10/11/2011 19:30	9.32	4.85	18.83	1.49	2.02	4.10
10/11/2011 19:45	9.57	4.88	19.11	1.74	2.05	4.38
10/11/2011 20:00	9.79	4.90	19.30	1.96	2.07	4.57
10/11/2011 20:15	9.98	4.93	19.45	2.15	2.10	4.72
10/11/2011 20:30	10.15	4.96	19.58	2.32	2.13	4.85
10/11/2011 20:45	10.30	4.99	19.67	2.47	2.16	4.94
10/11/2011 21:00	10.42	5.02	19.73	2.59	2.19	5.00
10/11/2011 21:15	10.52	5.04	19.80	2.69	2.21	5.07
10/11/2011 21:30	10.62	5.07	19.83	2.79	2.24	5.10
10/11/2011 21:45	10.70	5.10	19.81	2.87	2.27	5.08
10/11/2011 22:00	10.76	5.13	19.73	2.93	2.30	5.00
10/11/2011 22:15	10.80	5.16	19.63	2.97	2.33	4.90
10/11/2011 22:30	10.81	5.19	19.46	2.98	2.36	4.73
10/11/2011 22:45	10.80	5.23	19.24	2.97	2.40	4.51
10/11/2011 23:00	10.74	5.24	18.96	2.91	2.41	4.23
10/11/2011 23:15	10.68	5.27	18.74	2.85	2.44	4.01
10/11/2011 23:30	10.59	5.31	18.36	2.76	2.48	3.63
10/11/2011 23:45	10.45	5.31	17.93	2.62	2.48	3.20
10/12/2011 0:00	10.29	5.33	17.50	2.46	2.50	2.77
10/12/2011 0:15	10.09	5.35	17.01	2.26	2.52	2.28
10/12/2011 0:30	9.87	5.36	16.49	2.04	2.53	1.76
10/12/2011 0:45	9.60	5.35	15.88	1.77	2.52	1.15
10/12/2011 1:00	9.33	5.34	15.41	1.50	2.51	0.68
10/12/2011 1:15	9.06	5.35	14.80	1.23	2.52	0.07
10/12/2011 1:30	8.77	5.33	14.49	0.94	2.50	-0.24
10/12/2011 1:45	8.48	5.31	14.05	0.65	2.48	-0.68
10/12/2011 2:00	8.20	5.28	13.61	0.37	2.45	-1.12
10/12/2011 2:15	7.92	5.24	13.23	0.09	2.41	-1.50
10/12/2011 2:30	7.66	5.20	12.83	-0.17	2.37	-1.90
10/12/2011 2:45	7.41	5.17	12.56	-0.42	2.34	-2.17
10/12/2011 3:00	7.18	5.13	12.29	-0.65	2.30	-2.44
10/12/2011 3:15	6.97	5.09	12.13	-0.86	2.26	-2.60
10/12/2011 3:30	6.80	5.06	12.07	-1.03	2.23	-2.66
10/12/2011 3:45	6.66	5.02	12.11	-1.17	2.19	-2.62

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/12/2011 4:00	6.56	4.97	12.26	-1.27	2.14	-2.47
10/12/2011 4:15	6.51	4.93	12.55	-1.32	2.10	-2.18
10/12/2011 4:30	6.51	4.90	12.89	-1.32	2.07	-1.84
10/12/2011 4:45	6.58	4.87	13.32	-1.25	2.04	-1.42
10/12/2011 5:00	6.70	4.85	13.74	-1.13	2.02	-0.99
10/12/2011 5:15	6.86	4.83	14.37	-0.97	2.00	-0.36
10/12/2011 5:30	7.06	4.82	15.01	-0.77	1.99	0.28
10/12/2011 5:45	7.30	4.81	15.44	-0.53	1.98	0.71
10/12/2011 6:00	7.57	4.80	16.11	-0.26	1.97	1.38
10/12/2011 6:15	7.85	4.78	16.75	0.02	1.95	2.02
10/12/2011 6:30	8.15	4.78	17.27	0.32	1.95	2.54
10/12/2011 6:45	8.43	4.77	17.74	0.60	1.94	3.01
10/12/2011 7:00	8.71	4.77	18.20	0.88	1.94	3.47
10/12/2011 7:15	8.99	4.77	18.57	1.16	1.94	3.84
10/12/2011 7:30	9.26	4.79	18.95	1.43	1.96	4.22
10/12/2011 7:45	9.52	4.81	19.19	1.69	1.98	4.46
10/12/2011 8:00	9.74	4.84	19.39	1.91	2.01	4.66
10/12/2011 8:15	9.94	4.87	19.52	2.11	2.04	4.79
10/12/2011 8:30	10.10	4.91	19.61	2.27	2.08	4.88
10/12/2011 8:45	10.24	4.95	19.70	2.41	2.12	4.97
10/12/2011 9:00	10.37	4.99	19.78	2.54	2.16	5.05
10/12/2011 9:15	10.49	5.03	19.86	2.66	2.20	5.13
10/12/2011 9:30	10.59	5.06	19.90	2.76	2.23	5.17
10/12/2011 9:45	10.68	5.09	19.93	2.85	2.26	5.20
10/12/2011 10:00	10.76	5.13	19.88	2.93	2.30	5.15
10/12/2011 10:15	10.81	5.17	19.77	2.98	2.34	5.04
10/12/2011 10:30	10.83	5.21	19.63	3.00	2.38	4.90
10/12/2011 10:45	10.84	5.25	19.51	3.01	2.42	4.78
10/12/2011 11:00	10.82	5.30	19.38	2.99	2.47	4.65
10/12/2011 11:15	10.79	5.31	19.11	2.96	2.48	4.38
10/12/2011 11:30	10.73	5.27	18.81	2.90	2.44	4.08
10/12/2011 11:45	10.64	5.27	18.50	2.81	2.44	3.77
10/12/2011 12:00	10.52	5.30	18.14	2.69	2.47	3.41
10/12/2011 12:15	10.38	5.34	17.72	2.55	2.51	2.99
10/12/2011 12:30	10.20	5.35	17.25	2.37	2.52	2.52
10/12/2011 12:45	9.99	5.36	16.74	2.16	2.53	2.01
10/12/2011 13:00	9.75	5.37	16.25	1.92	2.54	1.52
10/12/2011 13:15	9.49	5.37	15.75	1.66	2.54	1.02
10/12/2011 13:30	9.22	5.36	15.24	1.39	2.53	0.51
10/12/2011 13:45	8.94	5.35	14.66	1.11	2.52	-0.07

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/12/2011 14:00	8.65	5.34	14.32	0.82	2.51	-0.41
10/12/2011 14:15	8.38	5.32	13.84	0.55	2.49	-0.90
10/12/2011 14:30	8.10	5.30	13.49	0.27	2.47	-1.24
10/12/2011 14:45	7.83	5.26	13.08	0.00	2.43	-1.65
10/12/2011 15:00	7.58	5.23	12.82	-0.25	2.40	-1.91
10/12/2011 15:15	7.34	5.19	12.54	-0.49	2.36	-2.19
10/12/2011 15:30	7.13	5.15	12.28	-0.71	2.32	-2.45
10/12/2011 15:45	6.93	5.11	12.13	-0.90	2.28	-2.60
10/12/2011 16:00	6.77	5.07	11.96	-1.07	2.24	-2.77
10/12/2011 16:15	6.64	5.03	12.11	-1.19	2.20	-2.62
10/12/2011 16:30	6.56	4.99	12.34	-1.27	2.16	-2.39
10/12/2011 16:45	6.53	4.96	12.72	-1.30	2.13	-2.01
10/12/2011 17:00	6.54	4.92	13.09	-1.29	2.09	-1.64
10/12/2011 17:15	6.61	4.89	13.47	-1.22	2.06	-1.26
10/12/2011 17:30	6.72	4.86	13.81	-1.11	2.03	-0.92
10/12/2011 17:45	6.88	4.84	14.41	-0.96	2.01	-0.32
10/12/2011 18:00	7.07	4.75	14.90	-0.76	1.92	0.17
10/12/2011 18:15	7.29	4.75	15.43	-0.54	1.92	0.70
10/12/2011 18:30	7.54	4.75	15.98	-0.30	1.92	1.25
10/12/2011 18:45	7.80	4.75	16.51	-0.03	1.92	1.78
10/12/2011 19:00	8.08	4.76	17.01	0.25	1.93	2.28
10/12/2011 19:15	8.35	4.77	17.43	0.52	1.94	2.70
10/12/2011 19:30	8.62	4.78	17.86	0.79	1.95	3.13
10/12/2011 19:45	8.87	4.79	18.24	1.04	1.96	3.51
10/12/2011 20:00	9.12	4.81	18.48	1.29	1.98	3.75
10/12/2011 20:15	9.33	4.83	18.83	1.50	2.00	4.10
10/12/2011 20:30	9.54	4.85	19.04	1.71	2.02	4.31
10/12/2011 20:45	9.73	4.87	19.22	1.90	2.04	4.49
10/12/2011 21:00	9.90	4.90	19.24	2.07	2.07	4.51
10/12/2011 21:15	10.04	4.93	19.39	2.21	2.10	4.66
10/12/2011 21:30	10.16	4.95	19.39	2.33	2.12	4.66
10/12/2011 21:45	10.25	4.98	19.40	2.42	2.15	4.67
10/12/2011 22:00	10.33	5.01	19.50	2.50	2.18	4.77
10/12/2011 22:15	10.40	5.04	19.46	2.57	2.21	4.73
10/12/2011 22:30	10.46	5.07	19.41	2.63	2.24	4.68
10/12/2011 22:45	10.49	5.09	19.29	2.66	2.26	4.56
10/12/2011 23:00	10.51	5.12	19.21	2.68	2.29	4.48
10/12/2011 23:15	10.49	5.15	18.96	2.66	2.32	4.23
10/12/2011 23:30	10.46	5.17	18.69	2.63	2.34	3.96
10/12/2011 23:45	10.40	5.20	18.40	2.57	2.37	3.67

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/13/2011 0:00	10.30	5.22	18.00	2.47	2.39	3.27
10/13/2011 0:15	10.17	5.24	17.55	2.34	2.41	2.82
10/13/2011 0:30	10.00	5.25	17.11	2.17	2.42	2.38
10/13/2011 0:45	9.78	5.26	16.57	1.95	2.43	1.84
10/13/2011 1:00	9.54	5.26	16.02	1.71	2.43	1.29
10/13/2011 1:15	9.27	5.26	15.43	1.44	2.43	0.70
10/13/2011 1:30	8.98	5.25	14.94	1.15	2.42	0.21
10/13/2011 1:45	8.70	5.24	14.53	0.87	2.41	-0.21
10/13/2011 2:00	8.40	5.28	13.99	0.57	2.45	-0.74
10/13/2011 2:15	8.12	5.21	13.59	0.29	2.38	-1.14
10/13/2011 2:30	7.85	5.18	13.17	0.02	2.35	-1.56
10/13/2011 2:45	7.58	5.14	12.81	-0.25	2.31	-1.93
10/13/2011 3:00	7.33	5.11	12.47	-0.50	2.28	-2.26
10/13/2011 3:15	7.10	5.08	12.16	-0.73	2.25	-2.57
10/13/2011 3:30	6.88	5.04	11.94	-0.95	2.21	-2.79
10/13/2011 3:45	6.69	5.01	11.94	-1.14	2.18	-2.79
10/13/2011 4:00	6.53	4.97	11.64	-1.30	2.14	-3.10
10/13/2011 4:15	6.40	4.94	11.69	-1.43	2.11	-3.04
10/13/2011 4:30	6.30	4.90	11.93	-1.53	2.07	-2.80
10/13/2011 4:45	6.27	4.88	12.20	-1.56	2.05	-2.53
10/13/2011 5:00	6.29	4.87	12.62	-1.54	2.04	-2.11
10/13/2011 5:15	6.37	4.84	13.08	-1.46	2.01	-1.65
10/13/2011 5:30	6.49	4.81	13.53	-1.35	1.98	-1.20
10/13/2011 5:45	6.64	4.78	14.06	-1.19	1.95	-0.67
10/13/2011 6:00	6.84	4.74	14.59	-0.99	1.91	-0.14
10/13/2011 6:15	7.06	4.72	15.19	-0.77	1.89	0.46
10/13/2011 6:30	7.32	4.71	15.72	-0.52	1.88	0.99
10/13/2011 6:45	7.59	4.70	16.34	-0.24	1.87	1.61
10/13/2011 7:00	7.88	4.70	16.94	0.05	1.87	2.21
10/13/2011 7:15	8.18	4.71	17.42	0.35	1.88	2.69
10/13/2011 7:30	8.48	4.72	17.86	0.65	1.89	3.13
10/13/2011 7:45	8.77	4.74	18.24	0.94	1.91	3.51
10/13/2011 8:00	9.04	4.76	18.66	1.21	1.93	3.93
10/13/2011 8:15	9.29	4.78	18.98	1.46	1.95	4.25
10/13/2011 8:30	9.52	4.81	19.18	1.69	1.98	4.45
10/13/2011 8:45	9.72	4.85	19.35	1.89	2.02	4.62
10/13/2011 9:00	9.90	4.88	19.44	2.07	2.05	4.71
10/13/2011 9:15	10.05	4.91	19.58	2.22	2.08	4.85
10/13/2011 9:30	10.18	4.94	19.65	2.35	2.11	4.92
10/13/2011 9:45	10.29	4.97	19.68	2.46	2.14	4.95

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/13/2011 10:00	10.39	5.00	19.78	2.56	2.17	5.05
10/13/2011 10:15	10.48	5.03	19.85	2.65	2.20	5.12
10/13/2011 10:30	10.56	5.06	19.62	2.73	2.23	4.89
10/13/2011 10:45	10.61	5.09	19.58	2.78	2.26	4.85
10/13/2011 11:00	10.64	5.03	19.43	2.81	2.20	4.70
10/13/2011 11:15	10.65	5.09	19.20	2.82	2.26	4.47
10/13/2011 11:30	10.63	5.13	19.19	2.80	2.30	4.46
10/13/2011 11:45	10.61	5.17	19.04	2.78	2.34	4.31
10/13/2011 12:00	10.56	5.23	18.77	2.73	2.40	4.04
10/13/2011 12:15	10.50	5.25	18.33	2.67	2.42	3.60
10/13/2011 12:30	10.39	5.27	17.84	2.56	2.44	3.11
10/13/2011 12:45	10.25	5.29	17.57	2.42	2.46	2.84
10/13/2011 13:00	10.09	5.30	17.19	2.26	2.47	2.46
10/13/2011 13:15	9.89	5.32	16.78	2.06	2.49	2.05
10/13/2011 13:30	9.65	5.33	16.24	1.82	2.50	1.51
10/13/2011 13:45	9.39	5.33	15.60	1.56	2.50	0.87
10/13/2011 14:00	9.13	5.32	15.11	1.30	2.49	0.38
10/13/2011 14:15	8.86	5.31	14.69	1.03	2.48	-0.04
10/13/2011 14:30	8.58	5.29	14.11	0.75	2.46	-0.63
10/13/2011 14:45	8.30	5.28	13.83	0.47	2.45	-0.90
10/13/2011 15:00	8.05	5.26	13.41	0.22	2.43	-1.32
10/13/2011 15:15	7.79	5.23	13.05	-0.04	2.40	-1.68
10/13/2011 15:30	7.54	5.20	12.75	-0.29	2.37	-1.98
10/13/2011 15:45	7.30	5.16	12.45	-0.53	2.33	-2.28
10/13/2011 16:00	7.09	5.13	12.21	-0.75	2.30	-2.52
10/13/2011 16:15	6.89	5.09	12.02	-0.94	2.26	-2.71
10/13/2011 16:30	6.72	5.06	11.94	-1.11	2.23	-2.79
10/13/2011 16:45	6.58	5.02	11.93	-1.25	2.19	-2.80
10/13/2011 17:00	6.47	4.99	12.06	-1.36	2.16	-2.67
10/13/2011 17:15	6.42	4.95	12.30	-1.41	2.12	-2.43
10/13/2011 17:30	6.42	4.92	12.67	-1.42	2.09	-2.06
10/13/2011 17:45	6.47	4.89	13.11	-1.36	2.06	-1.62
10/13/2011 18:00	6.58	4.87	13.58	-1.25	2.04	-1.15
10/13/2011 18:15	6.74	4.85	14.12	-1.09	2.02	-0.61
10/13/2011 18:30	6.94	4.83	14.66	-0.89	2.00	-0.07
10/13/2011 18:45	7.16	4.82	15.22	-0.67	1.99	0.49
10/13/2011 19:00	7.40	4.81	15.79	-0.43	1.98	1.06
10/13/2011 19:15	7.67	4.80	16.13	-0.16	1.97	1.40
10/13/2011 19:30	7.95	4.81	16.87	0.12	1.98	2.14
10/13/2011 19:45	8.23	4.81	17.38	0.40	1.98	2.65

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/13/2011 20:00	8.51	4.82	17.86	0.68	1.99	3.13
10/13/2011 20:15	8.77	4.74	18.20	0.94	1.91	3.47
10/13/2011 20:30	9.03	4.78	18.44	1.20	1.95	3.71
10/13/2011 20:45	9.27	4.82	18.75	1.44	1.99	4.02
10/13/2011 21:00	9.45	4.82	19.09	1.62	1.99	4.36
10/13/2011 21:15	9.64	4.83	19.19	1.81	2.00	4.46
10/13/2011 21:30	9.81	4.86	19.26	1.98	2.03	4.53
10/13/2011 21:45	9.95	4.88	19.37	2.12	2.05	4.64
10/13/2011 22:00	10.06	4.91	19.37	2.23	2.08	4.64
10/13/2011 22:15	10.16	4.94	19.36	2.33	2.11	4.63
10/13/2011 22:30	10.24	4.97	19.32	2.41	2.14	4.59
10/13/2011 22:45	10.30	5.00	19.25	2.47	2.17	4.52
10/13/2011 23:00	10.34	5.04	19.19	2.51	2.21	4.46
10/13/2011 23:15	10.34	5.05	19.06	2.51	2.22	4.33
10/13/2011 23:30	10.33	5.07	18.88	2.50	2.24	4.15
10/13/2011 23:45	10.31	5.09	18.66	2.48	2.26	3.93
10/14/2011 0:00	10.26	5.11	18.35	2.43	2.28	3.62
10/14/2011 0:15	10.18	5.13	17.99	2.35	2.30	3.26
10/14/2011 0:30	10.06	5.15	17.46	2.23	2.32	2.73
10/14/2011 0:45	9.90	5.16	17.24	2.07	2.33	2.51
10/14/2011 1:00	9.70	5.17	16.59	1.87	2.34	1.86
10/14/2011 1:15	9.47	5.18	16.01	1.64	2.35	1.28
10/14/2011 1:30	9.21	5.17	15.42	1.38	2.34	0.69
10/14/2011 1:45	8.92	5.17	14.86	1.09	2.34	0.13
10/14/2011 2:00	8.63	5.15	14.36	0.80	2.32	-0.37
10/14/2011 2:15	8.34	5.15	13.96	0.51	2.32	-0.77
10/14/2011 2:30	8.07	5.14	13.51	0.24	2.31	-1.22
10/14/2011 2:45	7.79	5.11	13.09	-0.04	2.28	-1.64
10/14/2011 3:00	7.52	5.09	12.55	-0.31	2.26	-2.18
10/14/2011 3:15	7.24	5.05	12.21	-0.59	2.22	-2.52
10/14/2011 3:30	6.98	5.02	11.80	-0.85	2.19	-2.93
10/14/2011 3:45	6.73	4.98	11.50	-1.10	2.15	-3.23
10/14/2011 4:00	6.49	4.95	11.36	-1.34	2.12	-3.37
10/14/2011 4:15	6.29	4.91	11.18	-1.54	2.08	-3.55
10/14/2011 4:30	6.14	4.88	11.23	-1.69	2.05	-3.50
10/14/2011 4:45	6.05	4.84	11.46	-1.78	2.01	-3.27
10/14/2011 5:00	6.02	4.80	11.79	-1.82	1.97	-2.94
10/14/2011 5:15	6.04	4.76	12.12	-1.79	1.93	-2.61
10/14/2011 5:30	6.12	4.73	12.65	-1.71	1.90	-2.08
10/14/2011 5:45	6.24	4.71	13.12	-1.59	1.88	-1.61

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/14/2011 6:00	6.39	4.70	13.78	-1.44	1.87	-0.95
10/14/2011 6:15	6.59	4.68	14.29	-1.24	1.85	-0.44
10/14/2011 6:30	6.81	4.66	14.67	-1.02	1.83	-0.06
10/14/2011 6:45	7.05	4.64	15.31	-0.78	1.81	0.58
10/14/2011 7:00	7.31	4.63	15.78	-0.52	1.80	1.05
10/14/2011 7:15	7.57	4.61	16.31	-0.26	1.78	1.58
10/14/2011 7:30	7.83	4.61	16.77	0.00	1.78	2.04
10/14/2011 7:45	8.11	4.62	17.23	0.28	1.79	2.50
10/14/2011 8:00	8.37	4.64	17.59	0.54	1.81	2.86
10/14/2011 8:15	8.62	4.65	17.96	0.79	1.82	3.23
10/14/2011 8:30	8.85	4.67	18.22	1.02	1.84	3.49
10/14/2011 8:45	9.07	4.70	18.52	1.24	1.87	3.79
10/14/2011 9:00	9.27	4.72	18.68	1.44	1.89	3.95
10/14/2011 9:15	9.44	4.75	18.80	1.61	1.92	4.07
10/14/2011 9:30	9.59	4.77	18.83	1.76	1.94	4.10
10/14/2011 9:45	9.70	4.79	18.92	1.87	1.96	4.19
10/14/2011 10:00	9.80	4.82	19.07	1.97	1.99	4.34
10/14/2011 10:15	9.89	4.84	19.03	2.06	2.01	4.30
10/14/2011 10:30	9.95	4.86	19.08	2.12	2.03	4.35
10/14/2011 10:45	10.01	4.88	18.91	2.18	2.05	4.18
10/14/2011 11:00	10.05	4.90	18.96	2.22	2.07	4.23
10/14/2011 11:15	10.08	4.92	18.90	2.25	2.09	4.17
10/14/2011 11:30	10.09	4.89	18.73	2.26	2.06	4.00
10/14/2011 11:45	10.08	4.90	18.67	2.25	2.07	3.94
10/14/2011 12:00	10.06	4.95	18.44	2.23	2.12	3.71
10/14/2011 12:15	10.04	5.00	18.26	2.21	2.17	3.53
10/14/2011 12:30	9.99	5.03	18.03	2.16	2.20	3.30
10/14/2011 12:45	9.92	5.06	17.67	2.09	2.23	2.94
10/14/2011 13:00	9.81	5.08	17.30	1.98	2.25	2.57
10/14/2011 13:15	9.67	5.10	16.88	1.84	2.27	2.15
10/14/2011 13:30	9.48	5.11	16.33	1.65	2.28	1.60
10/14/2011 13:45	9.26	5.11	15.87	1.43	2.28	1.14
10/14/2011 14:00	9.02	5.11	15.30	1.19	2.28	0.57
10/14/2011 14:15	8.76	5.11	14.77	0.93	2.28	0.04
10/14/2011 14:30	8.50	5.10	14.45	0.67	2.27	-0.28
10/14/2011 14:45	8.24	5.09	13.96	0.41	2.26	-0.77
10/14/2011 15:00	8.00	5.07	13.67	0.17	2.24	-1.06
10/14/2011 15:15	7.76	5.05	13.38	-0.07	2.22	-1.35
10/14/2011 15:30	7.54	5.03	13.06	-0.29	2.20	-1.67
10/14/2011 15:45	7.32	4.99	12.87	-0.51	2.16	-1.86

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/14/2011 16:00	7.12	4.96	12.61	-0.71	2.13	-2.12
10/14/2011 16:15	6.93	4.93	12.44	-0.90	2.10	-2.29
10/14/2011 16:30	6.76	4.89	12.16	-1.07	2.06	-2.57
10/14/2011 16:45	6.61	4.86	11.26	-1.22	2.03	-3.47
10/14/2011 17:00	6.48	4.82	11.99	-1.36	1.99	-2.74
10/14/2011 17:15	6.38	4.79	12.04	-1.46	1.96	-2.69
10/14/2011 17:30	6.30	4.76	12.09	-1.54	1.93	-2.64
10/14/2011 17:45	6.25	4.71	12.22	-1.58	1.88	-2.51
10/14/2011 18:00	6.23	4.66	12.44	-1.60	1.83	-2.29
10/14/2011 18:15	6.25	4.64	12.75	-1.58	1.81	-1.98
10/14/2011 18:30	6.32	4.57	13.23	-1.51	1.74	-1.50
10/14/2011 18:45	6.43	4.55	13.60	-1.40	1.72	-1.13
10/14/2011 19:00	6.59	4.54	14.10	-1.24	1.71	-0.63
10/14/2011 19:15	6.77	4.53	14.60	-1.06	1.70	-0.13
10/14/2011 19:30	7.00	4.53	15.12	-0.83	1.70	0.39
10/14/2011 19:45	7.23	4.53	15.61	-0.60	1.70	0.88
10/14/2011 20:00	7.49	4.53	15.96	-0.34	1.70	1.23
10/14/2011 20:15	7.75	4.53	16.60	-0.08	1.70	1.87
10/14/2011 20:30	8.01	4.54	17.05	0.18	1.71	2.32
10/14/2011 20:45	8.26	4.55	17.42	0.43	1.72	2.69
10/14/2011 21:00	8.51	4.57	17.80	0.68	1.74	3.07
10/14/2011 21:15	8.74	4.59	18.11	0.91	1.76	3.38
10/14/2011 21:30	8.94	4.61	18.34	1.11	1.78	3.61
10/14/2011 21:45	9.13	4.63	18.52	1.30	1.80	3.79
10/14/2011 22:00	9.31	4.65	18.68	1.48	1.82	3.95
10/14/2011 22:15	9.47	4.68	18.76	1.64	1.85	4.03
10/14/2011 22:30	9.60	4.71	18.78	1.77	1.88	4.05
10/14/2011 22:45	9.70	4.74	18.86	1.87	1.91	4.13
10/14/2011 23:00	9.78	4.76	18.83	1.95	1.93	4.10
10/14/2011 23:15	9.83	4.79	18.73	2.00	1.96	4.00
10/14/2011 23:30	9.87	4.81	18.59	2.04	1.98	3.86
10/14/2011 23:45	9.87	4.83	18.54	2.04	2.00	3.81
10/15/2011 0:00	9.86	4.85	18.28	2.03	2.02	3.55
10/15/2011 0:15	9.83	4.88	18.05	2.00	2.05	3.32
10/15/2011 0:30	9.78	4.89	17.86	1.95	2.06	3.13
10/15/2011 0:45	9.70	4.90	17.57	1.87	2.07	2.84
10/15/2011 1:00	9.58	4.91	17.14	1.75	2.08	2.41
10/15/2011 1:15	9.41	4.91	16.67	1.58	2.08	1.94
10/15/2011 1:30	9.22	4.93	16.22	1.39	2.10	1.49
10/15/2011 1:45	9.01	4.95	15.75	1.18	2.12	1.02

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/15/2011 2:00	8.78	4.94	15.27	0.95	2.11	0.54
10/15/2011 2:15	8.54	4.94	14.81	0.71	2.11	0.08
10/15/2011 2:30	8.29	4.93	14.26	0.46	2.10	-0.47
10/15/2011 2:45	8.04	4.92	13.94	0.21	2.09	-0.79
10/15/2011 3:00	7.79	4.90	13.53	-0.04	2.07	-1.20
10/15/2011 3:15	7.55	4.88	13.11	-0.28	2.05	-1.62
10/15/2011 3:30	7.32	4.85	12.78	-0.51	2.02	-1.95
10/15/2011 3:45	7.10	4.83	12.46	-0.73	2.00	-2.27
10/15/2011 4:00	6.89	4.80	12.17	-0.94	1.97	-2.56
10/15/2011 4:15	6.68	4.77	11.89	-1.15	1.94	-2.84
10/15/2011 4:30	6.50	4.76	11.77	-1.33	1.93	-2.96
10/15/2011 4:45	6.34	4.71	11.62	-1.49	1.88	-3.12
10/15/2011 5:00	6.19	4.66	11.52	-1.64	1.83	-3.21
10/15/2011 5:15	6.08	4.61	11.56	-1.76	1.78	-3.17
10/15/2011 5:30	6.00	4.58	11.74	-1.83	1.75	-2.99
10/15/2011 5:45	5.97	4.55	11.97	-1.87	1.72	-2.76
10/15/2011 6:00	5.98	4.52	12.27	-1.85	1.69	-2.46
10/15/2011 6:15	6.04	4.50	12.66	-1.79	1.67	-2.07
10/15/2011 6:30	6.14	4.48	13.08	-1.69	1.65	-1.65
10/15/2011 6:45	6.28	4.46	13.55	-1.55	1.63	-1.18
10/15/2011 7:00	6.46	4.45	14.04	-1.37	1.62	-0.69
10/15/2011 7:15	6.66	4.45	14.54	-1.17	1.62	-0.19
10/15/2011 7:30	6.89	4.45	15.05	-0.94	1.62	0.32
10/15/2011 7:45	7.13	4.45	15.56	-0.71	1.62	0.83
10/15/2011 8:00	7.37	4.44	16.06	-0.46	1.61	1.33
10/15/2011 8:15	7.64	4.45	16.52	-0.19	1.62	1.79
10/15/2011 8:30	7.90	4.45	17.02	0.07	1.62	2.29
10/15/2011 8:45	8.16	4.46	17.43	0.33	1.63	2.70
10/15/2011 9:00	8.42	4.48	17.74	0.59	1.65	3.01
10/15/2011 9:15	8.67	4.50	18.17	0.84	1.67	3.44
10/15/2011 9:30	8.91	4.52	18.47	1.08	1.69	3.74
10/15/2011 9:45	9.13	4.55	18.74	1.30	1.72	4.01
10/15/2011 10:00	9.33	4.58	18.90	1.50	1.75	4.17
10/15/2011 10:15	9.51	4.61	19.11	1.68	1.78	4.38
10/15/2011 10:30	9.65	4.64	19.13	1.82	1.81	4.40
10/15/2011 10:45	9.77	4.67	19.09	1.94	1.84	4.36
10/15/2011 11:00	9.87	4.70	19.13	2.04	1.87	4.40
10/15/2011 11:15	9.95	4.73	19.17	2.12	1.90	4.44
10/15/2011 11:30	10.02	4.76	19.18	2.19	1.93	4.45
10/15/2011 11:45	10.07	4.79	19.11	2.24	1.96	4.38

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/15/2011 12:00	10.11	4.82	19.04	2.28	1.99	4.31
10/15/2011 12:15	10.12	4.85	18.93	2.29	2.02	4.20
10/15/2011 12:30	10.13	4.87	18.88	2.30	2.04	4.15
10/15/2011 12:45	10.12	4.89	18.71	2.29	2.06	3.98
10/15/2011 13:00	10.09	4.92	18.51	2.26	2.09	3.78
10/15/2011 13:15	10.04	4.94	18.15	2.21	2.11	3.42
10/15/2011 13:30	9.96	4.96	17.87	2.13	2.13	3.14
10/15/2011 13:45	9.84	4.98	17.52	2.01	2.15	2.79
10/15/2011 14:00	9.69	5.00	17.06	1.86	2.17	2.33
10/15/2011 14:15	9.51	5.01	16.57	1.68	2.18	1.84
10/15/2011 14:30	9.29	5.01	16.08	1.46	2.18	1.35
10/15/2011 14:45	9.05	5.01	15.56	1.22	2.18	0.82
10/15/2011 15:00	8.80	5.01	15.06	0.97	2.18	0.33
10/15/2011 15:15	8.54	5.00	14.59	0.71	2.17	-0.14
10/15/2011 15:30	8.27	4.98	14.16	0.44	2.15	-0.57
10/15/2011 15:45	8.01	4.96	13.75	0.18	2.13	-0.98
10/15/2011 16:00	7.76	4.94	13.37	-0.08	2.11	-1.36
10/15/2011 16:15	7.51	4.91	13.05	-0.32	2.08	-1.68
10/15/2011 16:30	7.28	4.88	12.71	-0.55	2.05	-2.02
10/15/2011 16:45	7.06	4.85	12.43	-0.77	2.02	-2.30
10/15/2011 17:00	6.86	4.83	12.20	-0.97	2.00	-2.53
10/15/2011 17:15	6.67	4.79	12.04	-1.16	1.96	-2.69
10/15/2011 17:30	6.52	4.76	11.96	-1.31	1.93	-2.77
10/15/2011 17:45	6.38	4.73	11.90	-1.45	1.90	-2.83
10/15/2011 18:00	6.28	4.70	11.99	-1.55	1.87	-2.74
10/15/2011 18:15	6.23	4.67	12.19	-1.60	1.84	-2.54
10/15/2011 18:30	6.22	4.64	12.43	-1.61	1.81	-2.30
10/15/2011 18:45	6.25	4.61	12.76	-1.58	1.78	-1.97
10/15/2011 19:00	6.32	4.59	13.15	-1.51	1.76	-1.58
10/15/2011 19:15	6.44	4.57	13.59	-1.39	1.74	-1.14
10/15/2011 19:30	6.59	4.55	14.06	-1.24	1.72	-0.67
10/15/2011 19:45	6.77	4.53	14.57	-1.06	1.70	-0.16
10/15/2011 20:00	6.98	4.52	15.07	-0.85	1.69	0.33
10/15/2011 20:15	7.21	4.52	15.56	-0.62	1.69	0.83
10/15/2011 20:30	7.45	4.51	16.12	-0.38	1.68	1.39
10/15/2011 20:45	7.69	4.52	16.48	-0.14	1.69	1.75
10/15/2011 21:00	7.95	4.52	16.92	0.12	1.69	2.19
10/15/2011 21:15	8.19	4.53	17.30	0.36	1.70	2.57
10/15/2011 21:30	8.43	4.54	17.66	0.60	1.71	2.93
10/15/2011 21:45	8.66	4.56	17.94	0.83	1.73	3.21

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/15/2011 22:00	8.87	4.58	18.15	1.04	1.75	3.42
10/15/2011 22:15	9.06	4.60	18.44	1.23	1.77	3.71
10/15/2011 22:30	9.23	4.62	18.57	1.40	1.79	3.84
10/15/2011 22:45	9.38	4.64	18.65	1.55	1.81	3.92
10/15/2011 23:00	9.51	4.66	18.76	1.68	1.83	4.03
10/15/2011 23:15	9.62	4.68	18.79	1.79	1.85	4.06
10/15/2011 23:30	9.70	4.71	18.73	1.87	1.88	4.00
10/15/2011 23:45	9.75	4.73	18.62	1.92	1.90	3.89
10/16/2011 0:00	9.77	4.76	18.52	1.94	1.93	3.79
10/16/2011 0:15	9.78	4.77	18.42	1.95	1.94	3.69
10/16/2011 0:30	9.77	4.80	18.27	1.94	1.97	3.54
10/16/2011 0:45	9.75	4.81	18.05	1.92	1.98	3.32
10/16/2011 1:00	9.69	4.83	17.78	1.86	2.00	3.05
10/16/2011 1:15	9.60	4.84	17.42	1.77	2.01	2.69
10/16/2011 1:30	9.47	4.85	17.01	1.64	2.02	2.28
10/16/2011 1:45	9.31	4.85	16.51	1.48	2.02	1.78
10/16/2011 2:00	9.11	4.85	16.03	1.28	2.02	1.30
10/16/2011 2:15	8.88	4.86	15.53	1.05	2.03	0.80
10/16/2011 2:30	8.65	4.85	15.05	0.82	2.02	0.32
10/16/2011 2:45	8.40	4.85	14.62	0.57	2.02	-0.11
10/16/2011 3:00	8.15	4.84	14.18	0.32	2.01	-0.55
10/16/2011 3:15	7.91	4.82	13.83	0.08	1.99	-0.90
10/16/2011 3:30	7.68	4.81	13.45	-0.15	1.98	-1.29
10/16/2011 3:45	7.45	4.78	13.10	-0.38	1.95	-1.63
10/16/2011 4:00	7.23	4.76	12.76	-0.60	1.93	-1.98
10/16/2011 4:15	7.01	4.73	12.54	-0.82	1.90	-2.20
10/16/2011 4:30	6.80	4.70	12.20	-1.03	1.87	-2.53
10/16/2011 4:45	6.60	4.68	11.92	-1.23	1.85	-2.81
10/16/2011 5:00	6.42	4.64	11.69	-1.41	1.81	-3.04
10/16/2011 5:15	6.26	4.61	11.54	-1.57	1.78	-3.19
10/16/2011 5:30	6.12	4.58	11.54	-1.71	1.75	-3.19
10/16/2011 5:45	6.02	4.55	11.57	-1.81	1.72	-3.16
10/16/2011 6:00	5.96	4.52	11.82	-1.87	1.69	-2.91
10/16/2011 6:15	5.94	4.50	11.96	-1.89	1.67	-2.77
10/16/2011 6:30	5.97	4.47	12.34	-1.86	1.64	-2.39
10/16/2011 6:45	6.04	4.45	12.66	-1.79	1.62	-2.07
10/16/2011 7:00	6.14	4.44	13.09	-1.69	1.61	-1.64
10/16/2011 7:15	6.27	4.42	13.52	-1.56	1.59	-1.21
10/16/2011 7:30	6.44	4.41	14.02	-1.39	1.58	-0.71
10/16/2011 7:45	6.63	4.40	14.52	-1.20	1.57	-0.21

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/16/2011 8:00	6.86	4.39	15.09	-0.97	1.56	0.36
10/16/2011 8:15	7.09	4.39	15.49	-0.74	1.56	0.76
10/16/2011 8:30	7.34	4.39	16.02	-0.49	1.56	1.29
10/16/2011 8:45	7.60	4.40	16.53	-0.23	1.57	1.80
10/16/2011 9:00	7.85	4.40	16.90	0.02	1.57	2.17
10/16/2011 9:15	8.11	4.42	17.34	0.28	1.59	2.61
10/16/2011 9:30	8.37	4.43	17.67	0.54	1.60	2.94
10/16/2011 9:45	8.60	4.45	17.95	0.77	1.62	3.22
10/16/2011 10:00	8.83	4.47	18.34	1.00	1.64	3.61
10/16/2011 10:15	9.04	4.49	18.58	1.21	1.66	3.85
10/16/2011 10:30	9.25	4.52	18.68	1.42	1.69	3.95
10/16/2011 10:45	9.44	4.55	19.02	1.61	1.72	4.29
10/16/2011 11:00	9.59	4.57	19.07	1.76	1.74	4.34
10/16/2011 11:15	9.74	4.61	19.18	1.91	1.78	4.45
10/16/2011 11:30	9.86	4.64	19.36	2.03	1.81	4.63
10/16/2011 11:45	9.96	4.67	19.42	2.13	1.84	4.69
10/16/2011 12:00	10.05	4.70	19.39	2.22	1.87	4.66
10/16/2011 12:15	10.12	4.73	19.36	2.29	1.90	4.63
10/16/2011 12:30	10.17	4.76	19.34	2.34	1.93	4.61
10/16/2011 12:45	10.21	4.79	19.26	2.38	1.96	4.53
10/16/2011 13:00	10.24	4.82	19.15	2.41	1.99	4.42
10/16/2011 13:15	10.24	4.85	19.03	2.41	2.02	4.30
10/16/2011 13:30	10.24	4.88	18.87	2.41	2.05	4.14
10/16/2011 13:45	10.20	4.91	18.65	2.37	2.08	3.92
10/16/2011 14:00	10.15	4.93	18.39	2.32	2.10	3.66
10/16/2011 14:15	10.06	4.95	18.05	2.23	2.12	3.32
10/16/2011 14:30	9.93	4.96	17.65	2.10	2.13	2.92
10/16/2011 14:45	9.77	4.97	17.19	1.94	2.14	2.46
10/16/2011 15:00	9.58	4.98	16.67	1.75	2.15	1.94
10/16/2011 15:15	9.35	4.98	16.14	1.52	2.15	1.41
10/16/2011 15:30	9.09	4.98	15.58	1.26	2.15	0.85
10/16/2011 15:45	8.82	4.97	15.02	0.99	2.14	0.29
10/16/2011 16:00	8.55	4.96	14.64	0.72	2.13	-0.09
10/16/2011 16:15	8.27	4.94	14.04	0.44	2.11	-0.69
10/16/2011 16:30	8.00	4.93	13.65	0.17	2.10	-1.08
10/16/2011 16:45	7.74	4.91	13.32	-0.09	2.08	-1.41
10/16/2011 17:00	7.49	4.88	12.94	-0.34	2.05	-1.79
10/16/2011 17:15	7.25	4.85	12.63	-0.58	2.02	-2.10
10/16/2011 17:30	7.04	4.82	12.48	-0.79	1.99	-2.26
10/16/2011 17:45	6.84	4.80	12.20	-0.99	1.97	-2.53

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/16/2011 18:00	6.66	4.77	12.06	-1.17	1.94	-2.67
10/16/2011 18:15	6.51	4.74	12.01	-1.32	1.91	-2.72
10/16/2011 18:30	6.41	4.71	12.14	-1.42	1.88	-2.59
10/16/2011 18:45	6.35	4.68	12.33	-1.48	1.85	-2.40
10/16/2011 19:00	6.34	4.65	12.60	-1.49	1.82	-2.13
10/16/2011 19:15	6.38	4.63	12.97	-1.45	1.80	-1.76
10/16/2011 19:30	6.46	4.60	13.35	-1.37	1.77	-1.38
10/16/2011 19:45	6.57	4.58	13.78	-1.26	1.75	-0.95
10/16/2011 20:00	6.72	4.56	14.21	-1.11	1.73	-0.52
10/16/2011 20:15	6.89	4.55	14.67	-0.94	1.72	-0.06
10/16/2011 20:30	7.09	4.54	15.09	-0.74	1.71	0.36
10/16/2011 20:45	7.31	4.53	15.48	-0.52	1.70	0.75
10/16/2011 21:00	7.54	4.53	16.04	-0.29	1.70	1.31
10/16/2011 21:15	7.78	4.54	16.51	-0.05	1.71	1.78
10/16/2011 21:30	8.02	4.55	16.92	0.19	1.72	2.19
10/16/2011 21:45	8.25	4.55	17.31	0.42	1.72	2.58
10/16/2011 22:00	8.48	4.56	17.65	0.65	1.73	2.92
10/16/2011 22:15	8.70	4.58	17.92	0.87	1.75	3.19
10/16/2011 22:30	8.90	4.60	18.13	1.07	1.77	3.40
10/16/2011 22:45	9.08	4.62	18.33	1.25	1.79	3.60
10/16/2011 23:00	9.25	4.64	18.45	1.42	1.81	3.72
10/16/2011 23:15	9.38	4.66	18.54	1.55	1.83	3.81
10/16/2011 23:30	9.50	4.69	18.66	1.67	1.86	3.93
10/16/2011 23:45	9.61	4.71	18.70	1.78	1.88	3.97
10/17/2011 0:00	9.70	4.74	18.71	1.87	1.91	3.98
10/17/2011 0:15	9.76	4.76	18.66	1.93	1.93	3.93
10/17/2011 0:30	9.81	4.78	18.60	1.98	1.95	3.87
10/17/2011 0:45	9.83	4.81	18.50	2.00	1.98	3.77
10/17/2011 1:00	9.84	4.83	18.39	2.01	2.00	3.66
10/17/2011 1:15	9.82	4.85	18.21	1.99	2.02	3.48
10/17/2011 1:30	9.79	4.87	18.01	1.96	2.04	3.28
10/17/2011 1:45	9.73	4.89	17.73	1.90	2.06	3.00
10/17/2011 2:00	9.64	4.91	17.41	1.81	2.08	2.68
10/17/2011 2:15	9.52	4.92	17.03	1.69	2.09	2.30
10/17/2011 2:30	9.37	4.93	16.62	1.54	2.10	1.89
10/17/2011 2:45	9.20	4.94	16.16	1.37	2.11	1.43
10/17/2011 3:00	9.01	4.94	15.62	1.18	2.11	0.89
10/17/2011 3:15	8.80	4.94	15.33	0.97	2.11	0.60
10/17/2011 3:30	8.59	4.94	14.99	0.76	2.11	0.26
10/17/2011 3:45	8.36	4.93	14.58	0.53	2.10	-0.15

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/17/2011 4:00	8.13	4.91	14.17	0.30	2.08	-0.56
10/17/2011 4:15	7.90	4.90	13.82	0.07	2.07	-0.91
10/17/2011 4:30	7.69	4.88	13.45	-0.15	2.05	-1.28
10/17/2011 4:45	7.47	4.86	13.13	-0.36	2.03	-1.60
10/17/2011 5:00	7.27	4.84	12.97	-0.56	2.01	-1.76
10/17/2011 5:15	7.08	4.81	12.58	-0.75	1.98	-2.15
10/17/2011 5:30	6.90	4.78	12.35	-0.93	1.95	-2.38
10/17/2011 5:45	6.73	4.76	12.19	-1.10	1.93	-2.54
10/17/2011 6:00	6.58	4.73	12.16	-1.25	1.90	-2.57
10/17/2011 6:15	6.45	4.70	12.11	-1.38	1.87	-2.62
10/17/2011 6:30	6.37	4.67	12.20	-1.46	1.84	-2.53
10/17/2011 6:45	6.32	4.64	12.32	-1.51	1.81	-2.41
10/17/2011 7:00	6.31	4.62	12.62	-1.52	1.79	-2.11
10/17/2011 7:15	6.34	4.60	12.93	-1.49	1.77	-1.80
10/17/2011 7:30	6.41	4.57	13.36	-1.42	1.74	-1.37
10/17/2011 7:45	6.52	4.56	13.67	-1.31	1.73	-1.06
10/17/2011 8:00	6.66	4.54	14.07	-1.17	1.71	-0.66
10/17/2011 8:15	6.82	4.53	14.54	-1.01	1.70	-0.20
10/17/2011 8:30	7.01	4.52	14.99	-0.82	1.69	0.26
10/17/2011 8:45	7.21	4.52	15.49	-0.62	1.69	0.76
10/17/2011 9:00	7.44	4.52	15.93	-0.39	1.69	1.20
10/17/2011 9:15	7.68	4.52	16.41	-0.15	1.69	1.68
10/17/2011 9:30	7.91	4.52	16.81	0.08	1.69	2.08
10/17/2011 9:45	8.16	4.53	17.23	0.33	1.70	2.50
10/17/2011 10:00	8.40	4.55	17.57	0.57	1.72	2.84
10/17/2011 10:15	8.63	4.56	17.93	0.80	1.73	3.20
10/17/2011 10:30	8.85	4.58	18.23	1.02	1.75	3.50
10/17/2011 10:45	9.06	4.60	18.51	1.23	1.77	3.78
10/17/2011 11:00	9.27	4.63	18.73	1.44	1.80	4.00
10/17/2011 11:15	9.46	4.66	18.93	1.63	1.83	4.20
10/17/2011 11:30	9.63	4.69	19.10	1.80	1.86	4.37
10/17/2011 11:45	9.77	4.72	19.17	1.94	1.89	4.44
10/17/2011 12:00	9.89	4.75	19.19	2.06	1.92	4.46
10/17/2011 12:15	9.98	4.78	19.21	2.15	1.95	4.48
10/17/2011 12:30	10.06	4.81	19.22	2.23	1.98	4.49
10/17/2011 12:45	10.12	4.84	19.20	2.29	2.01	4.47
10/17/2011 13:00	10.17	4.87	19.16	2.34	2.04	4.43
10/17/2011 13:15	10.21	4.90	19.09	2.38	2.07	4.36
10/17/2011 13:30	10.23	4.93	18.96	2.40	2.10	4.23
10/17/2011 13:45	10.22	4.96	18.82	2.39	2.13	4.09

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/17/2011 14:00	10.20	4.98	18.61	2.37	2.15	3.88
10/17/2011 14:15	10.15	5.01	18.43	2.32	2.18	3.70
10/17/2011 14:30	10.08	5.03	18.13	2.25	2.20	3.40
10/17/2011 14:45	9.98	5.05	17.80	2.15	2.22	3.07
10/17/2011 15:00	9.86	5.06	17.41	2.03	2.23	2.68
10/17/2011 15:15	9.70	5.07	16.98	1.87	2.24	2.25
10/17/2011 15:30	9.51	5.08	16.55	1.68	2.25	1.82
10/17/2011 15:45	9.30	5.08	16.11	1.47	2.25	1.38
10/17/2011 16:00	9.06	5.07	15.66	1.23	2.24	0.93
10/17/2011 16:15	8.81	5.06	15.11	0.98	2.23	0.38
10/17/2011 16:30	8.55	5.04	14.70	0.72	2.21	-0.03
10/17/2011 16:45	8.30	5.01	14.25	0.47	2.18	-0.48
10/17/2011 17:00	8.05	4.99	13.88	0.22	2.16	-0.85
10/17/2011 17:15	7.81	4.96	13.50	-0.02	2.13	-1.23
10/17/2011 17:30	7.58	4.94	13.22	-0.25	2.11	-1.51
10/17/2011 17:45	7.37	4.91	12.91	-0.46	2.08	-1.82
10/17/2011 18:00	7.17	4.89	12.67	-0.66	2.06	-2.06
10/17/2011 18:15	6.97	4.85	12.45	-0.86	2.02	-2.28
10/17/2011 18:30	6.80	4.82	12.26	-1.03	1.99	-2.47
10/17/2011 18:45	6.65	4.79	12.22	-1.18	1.96	-2.51
10/17/2011 19:00	6.53	4.76	12.24	-1.30	1.93	-2.49
10/17/2011 19:15	6.45	4.72	12.39	-1.38	1.89	-2.34
10/17/2011 19:30	6.42	4.70	12.62	-1.41	1.87	-2.11
10/17/2011 19:45	6.43	4.67	12.86	-1.41	1.84	-1.88
10/17/2011 20:00	6.47	4.64	13.16	-1.36	1.81	-1.58
10/17/2011 20:15	6.55	4.62	13.51	-1.28	1.79	-1.22
10/17/2011 20:30	6.66	4.60	13.93	-1.17	1.77	-0.80
10/17/2011 20:45	6.81	4.59	14.31	-1.02	1.76	-0.42
10/17/2011 21:00	6.97	4.58	14.79	-0.86	1.75	0.06
10/17/2011 21:15	7.15	4.57	15.19	-0.68	1.74	0.46
10/17/2011 21:30	7.36	4.57	15.60	-0.47	1.74	0.87
10/17/2011 21:45	7.57	4.57	16.03	-0.26	1.74	1.30
10/17/2011 22:00	7.79	4.55	16.39	-0.04	1.72	1.66
10/17/2011 22:15	8.00	4.57	16.72	0.17	1.74	1.99
10/17/2011 22:30	8.21	4.58	17.02	0.38	1.75	2.29
10/17/2011 22:45	8.41	4.59	17.25	0.58	1.76	2.52
10/17/2011 23:00	8.59	4.61	17.57	0.76	1.78	2.84
10/17/2011 23:15	8.76	4.63	17.70	0.93	1.80	2.97
10/17/2011 23:30	8.92	4.65	17.88	1.09	1.82	3.15
10/17/2011 23:45	9.05	4.67	17.98	1.22	1.84	3.25

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/18/2011 0:00	9.17	4.69	18.12	1.34	1.86	3.39
10/18/2011 0:15	9.27	4.71	18.13	1.44	1.88	3.40
10/18/2011 0:30	9.36	4.73	18.16	1.53	1.90	3.43
10/18/2011 0:45	9.43	4.75	18.19	1.60	1.92	3.46
10/18/2011 1:00	9.50	4.78	18.21	1.67	1.95	3.48
10/18/2011 1:15	9.55	4.81	18.16	1.72	1.98	3.43
10/18/2011 1:30	9.58	4.83	18.01	1.75	2.00	3.28
10/18/2011 1:45	9.59	4.85	17.94	1.76	2.02	3.21
10/18/2011 2:00	9.58	4.86	17.83	1.75	2.03	3.10
10/18/2011 2:15	9.53	4.87	17.63	1.70	2.04	2.90
10/18/2011 2:30	9.48	4.88	17.46	1.65	2.05	2.73
10/18/2011 2:45	9.41	4.89	17.09	1.58	2.06	2.36
10/18/2011 3:00	9.31	4.90	16.78	1.48	2.07	2.05
10/18/2011 3:15	9.19	4.92	16.50	1.36	2.09	1.77
10/18/2011 3:30	9.04	4.91	16.01	1.21	2.08	1.28
10/18/2011 3:45	8.88	4.92	15.80	1.05	2.09	1.07
10/18/2011 4:00	8.71	4.92	15.52	0.88	2.09	0.79
10/18/2011 4:15	8.53	4.91	15.05	0.70	2.08	0.32
10/18/2011 4:30	8.33	4.90	14.68	0.50	2.07	-0.05
10/18/2011 4:45	8.13	4.89	14.31	0.30	2.06	-0.42
10/18/2011 5:00	7.91	4.89	13.98	0.08	2.06	-0.75
10/18/2011 5:15	7.71	4.87	13.66	-0.12	2.04	-1.07
10/18/2011 5:30	7.51	4.84	13.33	-0.32	2.01	-1.40
10/18/2011 5:45	7.32	4.82	13.01	-0.51	1.99	-1.72
10/18/2011 6:00	7.12	4.79	12.74	-0.71	1.96	-1.99
10/18/2011 6:15	6.94	4.77	12.49	-0.89	1.94	-2.24
10/18/2011 6:30	6.77	4.74	12.31	-1.06	1.91	-2.42
10/18/2011 6:45	6.62	4.72	12.19	-1.21	1.89	-2.54
10/18/2011 7:00	6.49	4.68	12.13	-1.34	1.85	-2.60
10/18/2011 7:15	6.39	4.65	12.17	-1.44	1.82	-2.56
10/18/2011 7:30	6.33	4.63	12.27	-1.51	1.80	-2.46
10/18/2011 7:45	6.30	4.62	12.47	-1.53	1.79	-2.26
10/18/2011 8:00	6.31	4.60	12.76	-1.52	1.77	-1.97
10/18/2011 8:15	6.36	4.58	13.07	-1.47	1.75	-1.66
10/18/2011 8:30	6.45	4.56	13.45	-1.38	1.73	-1.28
10/18/2011 8:45	6.57	4.54	13.89	-1.26	1.71	-0.84
10/18/2011 9:00	6.73	4.53	14.35	-1.10	1.70	-0.39
10/18/2011 9:15	6.91	4.52	14.81	-0.92	1.69	0.08
10/18/2011 9:30	7.11	4.52	15.28	-0.72	1.69	0.55
10/18/2011 9:45	7.34	4.52	15.76	-0.49	1.69	1.03

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/18/2011 10:00	7.58	4.52	16.20	-0.25	1.69	1.47
10/18/2011 10:15	7.83	4.54	16.62	0.00	1.71	1.89
10/18/2011 10:30	8.06	4.55	17.02	0.23	1.72	2.29
10/18/2011 10:45	8.30	4.57	17.39	0.47	1.74	2.66
10/18/2011 11:00	8.54	4.58	17.75	0.71	1.75	3.02
10/18/2011 11:15	8.77	4.60	18.08	0.94	1.77	3.35
10/18/2011 11:30	8.99	4.59	18.38	1.16	1.76	3.65
10/18/2011 11:45	9.20	4.56	18.66	1.37	1.73	3.93
10/18/2011 12:00	9.40	4.63	18.88	1.57	1.80	4.15
10/18/2011 12:15	9.59	4.69	19.06	1.76	1.86	4.33
10/18/2011 12:30	9.75	4.73	19.17	1.92	1.90	4.44
10/18/2011 12:45	9.88	4.76	19.28	2.05	1.93	4.55
10/18/2011 13:00	10.00	4.79	19.38	2.17	1.96	4.65
10/18/2011 13:15	10.10	4.84	19.28	2.27	2.01	4.55
10/18/2011 13:30	10.18	4.87	19.31	2.35	2.04	4.58
10/18/2011 13:45	10.25	4.91	19.50	2.42	2.08	4.77
10/18/2011 14:00	10.31	4.93	19.30	2.48	2.10	4.57
10/18/2011 14:15	10.34	4.96	19.29	2.51	2.13	4.56
10/18/2011 14:30	10.37	5.00	19.30	2.54	2.17	4.57
10/18/2011 14:45	10.37	5.02	19.11	2.54	2.19	4.38
10/18/2011 15:00	10.36	5.06	18.93	2.53	2.23	4.20
10/18/2011 15:15	10.33	5.07	18.70	2.50	2.24	3.97
10/18/2011 15:30	10.26	5.10	18.44	2.43	2.27	3.71
10/18/2011 15:45	10.17	5.11	18.03	2.34	2.28	3.30
10/18/2011 16:00	10.04	5.12	17.53	2.21	2.29	2.80
10/18/2011 16:15	9.86	5.13	17.10	2.03	2.30	2.37
10/18/2011 16:30	9.65	5.13	16.67	1.82	2.30	1.94
10/18/2011 16:45	9.41	5.12	16.11	1.58	2.29	1.38
10/18/2011 17:00	9.16	5.12	15.67	1.33	2.29	0.94
10/18/2011 17:15	8.91	5.11	15.17	1.08	2.28	0.44
10/18/2011 17:30	8.65	5.10	14.73	0.82	2.27	0.00
10/18/2011 17:45	8.40	5.08	14.29	0.57	2.25	-0.44
10/18/2011 18:00	8.15	5.06	14.00	0.32	2.23	-0.73
10/18/2011 18:15	7.93	5.04	13.68	0.10	2.21	-1.05
10/18/2011 18:30	7.70	5.02	13.37	-0.13	2.19	-1.36
10/18/2011 18:45	7.49	4.99	13.12	-0.34	2.16	-1.61
10/18/2011 19:00	7.30	4.96	12.92	-0.53	2.13	-1.81
10/18/2011 19:15	7.14	4.93	12.80	-0.69	2.10	-1.93
10/18/2011 19:30	7.00	4.90	12.80	-0.83	2.07	-1.94
10/18/2011 19:45	6.90	4.87	12.95	-0.93	2.04	-1.78

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/18/2011 20:00	6.85	4.85	12.83	-0.98	2.02	-1.90
10/18/2011 20:15	6.82	4.82	13.22	-1.01	1.99	-1.52
10/18/2011 20:30	6.84	4.80	13.45	-0.99	1.97	-1.28
10/18/2011 20:45	6.89	4.78	13.78	-0.94	1.95	-0.95
10/18/2011 21:00	6.98	4.76	14.06	-0.85	1.93	-0.67
10/18/2011 21:15	7.08	4.75	14.46	-0.76	1.92	-0.27
10/18/2011 21:30	7.19	4.69	14.78	-0.64	1.86	0.05
10/18/2011 21:45	7.33	4.66	15.08	-0.50	1.83	0.35
10/18/2011 22:00	7.48	4.66	15.53	-0.35	1.83	0.80
10/18/2011 22:15	7.66	4.67	15.82	-0.17	1.84	1.09
10/18/2011 22:30	7.84	4.68	16.18	0.01	1.85	1.45
10/18/2011 22:45	8.02	4.69	16.43	0.19	1.86	1.70
10/18/2011 23:00	8.21	4.69	16.88	0.38	1.86	2.15
10/18/2011 23:15	8.40	4.71	17.13	0.57	1.88	2.40
10/18/2011 23:30	8.59	4.73	17.40	0.76	1.90	2.67
10/18/2011 23:45	8.77	4.74	17.65	0.94	1.91	2.92
10/19/2011 0:00	8.93	4.76	17.82	1.10	1.93	3.09
10/19/2011 0:15	9.08	4.78	17.90	1.25	1.95	3.17
10/19/2011 0:30	9.20	4.80	18.05	1.37	1.97	3.32
10/19/2011 0:45	9.32	4.82	18.15	1.49	1.99	3.42
10/19/2011 1:00	9.43	4.85	18.21	1.60	2.02	3.48
10/19/2011 1:15	9.51	4.87	18.24	1.68	2.04	3.51
10/19/2011 1:30	9.59	4.90	18.40	1.76	2.07	3.67
10/19/2011 1:45	9.67	4.93	18.42	1.84	2.10	3.69
10/19/2011 2:00	9.74	4.95	18.39	1.91	2.12	3.66
10/19/2011 2:15	9.77	4.98	18.35	1.94	2.15	3.62
10/19/2011 2:30	9.80	5.00	18.33	1.97	2.17	3.60
10/19/2011 2:45	9.83	5.03	18.35	2.00	2.20	3.62
10/19/2011 3:00	9.84	5.05	18.24	2.01	2.22	3.51
10/19/2011 3:15	9.84	5.06	17.97	2.01	2.23	3.24
10/19/2011 3:30	9.81	5.09	17.95	1.98	2.26	3.22
10/19/2011 3:45	9.76	5.10	17.75	1.93	2.27	3.02
10/19/2011 4:00	9.69	5.12	17.35	1.86	2.29	2.62
10/19/2011 4:15	9.60	5.15	17.07	1.77	2.32	2.34
10/19/2011 4:30	9.48	5.16	16.79	1.65	2.33	2.06
10/19/2011 4:45	9.35	5.17	16.49	1.52	2.34	1.76
10/19/2011 5:00	9.19	5.15	16.07	1.36	2.32	1.34
10/19/2011 5:15	9.02	5.13	15.77	1.19	2.30	1.04
10/19/2011 5:30	8.83	5.10	15.39	1.00	2.27	0.66
10/19/2011 5:45	8.63	5.08	15.07	0.80	2.25	0.33

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/19/2011 6:00	8.43	5.07	14.60	0.60	2.24	-0.13
10/19/2011 6:15	8.22	5.05	14.31	0.39	2.22	-0.43
10/19/2011 6:30	8.01	5.05	13.85	0.18	2.22	-0.88
10/19/2011 6:45	7.79	5.04	12.16	-0.04	2.21	-2.57
10/19/2011 7:00	7.57	5.22	13.20	-0.26	2.39	-1.53
10/19/2011 7:15	7.35	5.03	12.88	-0.48	2.20	-1.85
10/19/2011 7:30	7.15	4.99	12.61	-0.68	2.16	-2.13
10/19/2011 7:45	6.97	4.96	12.44	-0.86	2.13	-2.29
10/19/2011 8:00	6.80	4.92	12.33	-1.03	2.09	-2.40
10/19/2011 8:15	6.66	4.89	12.30	-1.17	2.06	-2.43
10/19/2011 8:30	6.57	4.86	12.43	-1.27	2.03	-2.30
10/19/2011 8:45	6.52	4.84	12.74	-1.31	2.01	-1.99
10/19/2011 9:00	6.53	4.82	12.91	-1.31	1.99	-1.82
10/19/2011 9:15	6.56	4.79	13.20	-1.27	1.96	-1.53
10/19/2011 9:30	6.63	4.77	13.47	-1.20	1.94	-1.26
10/19/2011 9:45	6.73	4.75	13.86	-1.10	1.92	-0.87
10/19/2011 10:00	6.85	4.73	14.24	-0.98	1.90	-0.49
10/19/2011 10:15	6.99	4.72	14.67	-0.84	1.89	-0.06
10/19/2011 10:30	7.15	4.71	15.06	-0.68	1.88	0.33
10/19/2011 10:45	7.34	4.71	15.50	-0.49	1.88	0.77
10/19/2011 11:00	7.54	4.70	15.85	-0.29	1.87	1.12
10/19/2011 11:15	7.75	4.69	16.26	-0.09	1.86	1.53
10/19/2011 11:30	7.95	4.68	16.70	0.12	1.85	1.97
10/19/2011 11:45	8.16	4.68	16.85	0.33	1.85	2.12
10/19/2011 12:00	8.37	4.69	17.33	0.54	1.86	2.60
10/19/2011 12:15	8.58	4.71	17.63	0.75	1.88	2.90
10/19/2011 12:30	8.77	4.72	17.84	0.94	1.89	3.11
10/19/2011 12:45	8.97	4.70	18.21	1.14	1.87	3.48
10/19/2011 13:00	9.15	4.74	18.39	1.32	1.91	3.66
10/19/2011 13:15	9.31	4.77	18.57	1.48	1.94	3.84
10/19/2011 13:30	9.48	4.80	18.65	1.65	1.97	3.92
10/19/2011 13:45	9.62	4.83	18.81	1.79	2.00	4.08
10/19/2011 14:00	9.72	4.85	18.85	1.89	2.02	4.12
10/19/2011 14:15	9.80	4.87	18.89	1.97	2.04	4.16
10/19/2011 14:30	9.89	4.89	18.92	2.06	2.06	4.19
10/19/2011 14:45	9.94	4.91	18.85	2.11	2.08	4.12
10/19/2011 15:00	9.97	4.92	18.75	2.14	2.09	4.02
10/19/2011 15:15	9.98	4.92	18.68	2.15	2.09	3.95
10/19/2011 15:30	9.98	4.93	18.44	2.15	2.10	3.71
10/19/2011 15:45	9.96	4.94	18.34	2.13	2.11	3.61

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/19/2011 16:00	9.91	4.95	18.15	2.08	2.12	3.42
10/19/2011 16:15	9.83	4.95	17.83	2.00	2.12	3.10
10/19/2011 16:30	9.72	4.96	17.46	1.89	2.13	2.73
10/19/2011 16:45	9.58	4.96	17.01	1.75	2.13	2.28
10/19/2011 17:00	9.40	4.95	16.46	1.57	2.12	1.73
10/19/2011 17:15	9.18	4.95	15.98	1.35	2.12	1.25
10/19/2011 17:30	8.94	4.93	15.45	1.11	2.10	0.72
10/19/2011 17:45	8.67	4.92	14.94	0.84	2.09	0.21
10/19/2011 18:00	8.41	4.91	14.47	0.58	2.08	-0.26
10/19/2011 18:15	8.15	4.88	13.99	0.32	2.05	-0.74
10/19/2011 18:30	7.87	4.82	13.54	0.04	1.99	-1.19
10/19/2011 18:45	7.61	4.80	13.15	-0.22	1.97	-1.58
10/19/2011 19:00	7.35	4.77	12.82	-0.48	1.94	-1.91
10/19/2011 19:15	7.11	4.74	12.49	-0.72	1.91	-2.24
10/19/2011 19:30	6.89	4.71	12.22	-0.94	1.88	-2.51
10/19/2011 19:45	6.67	4.66	12.00	-1.16	1.83	-2.73
10/19/2011 20:00	6.47	4.62	11.76	-1.36	1.79	-2.97
10/19/2011 20:15	6.29	4.58	11.50	-1.54	1.75	-3.23
10/19/2011 20:30	6.13	4.49	11.20	-1.70	1.66	-3.53
10/19/2011 20:45	5.98	4.46	11.25	-1.85	1.63	-3.49
10/19/2011 21:00	5.86	4.43	11.22	-1.97	1.60	-3.51
10/19/2011 21:15	5.77	4.40	11.22	-2.06	1.57	-3.51
10/19/2011 21:30	5.71	4.39	11.40	-2.12	1.56	-3.33
10/19/2011 21:45	5.68	4.37	11.56	-2.15	1.54	-3.18
10/19/2011 22:00	5.68	4.34	11.69	-2.15	1.51	-3.04
10/19/2011 22:15	5.71	4.33	12.01	-2.12	1.50	-2.72
10/19/2011 22:30	5.77	4.31	12.22	-2.06	1.48	-2.51
10/19/2011 22:45	5.86	4.30	12.55	-1.97	1.47	-2.18
10/19/2011 23:00	5.97	4.28	12.89	-1.86	1.45	-1.84
10/19/2011 23:15	6.11	4.28	13.37	-1.72	1.45	-1.36
10/19/2011 23:30	6.26	4.27	13.77	-1.57	1.44	-0.96
10/19/2011 23:45	6.45	4.27	14.23	-1.38	1.44	-0.50
10/20/2011 0:00	6.64	4.27	14.66	-1.19	1.44	-0.07
10/20/2011 0:15	6.86	4.27	15.08	-0.97	1.44	0.35
10/20/2011 0:30	7.08	4.28	15.50	-0.75	1.45	0.77
10/20/2011 0:45	7.30	4.28	15.89	-0.53	1.45	1.16
10/20/2011 1:00	7.53	4.29	16.27	-0.31	1.46	1.54
10/20/2011 1:15	7.72	4.29	16.48	-0.11	1.46	1.75
10/20/2011 1:30	7.91	4.31	16.64	0.08	1.48	1.91
10/20/2011 1:45	8.06	4.32	16.89	0.23	1.49	2.16

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/20/2011 2:00	8.20	4.34	16.94	0.37	1.51	2.21
10/20/2011 2:15	8.33	4.35	17.10	0.50	1.52	2.37
10/20/2011 2:30	8.45	4.37	16.94	0.62	1.54	2.21
10/20/2011 2:45	8.56	4.38	17.38	0.73	1.55	2.65
10/20/2011 3:00	8.66	4.40	17.44	0.83	1.57	2.71
10/20/2011 3:15	8.74	4.42	17.41	0.91	1.59	2.68
10/20/2011 3:30	8.80	4.44	17.32	0.97	1.61	2.59
10/20/2011 3:45	8.83	4.46	17.23	1.00	1.63	2.50
10/20/2011 4:00	8.83	4.47	17.09	1.00	1.64	2.36
10/20/2011 4:15	8.80	4.50	16.87	0.97	1.67	2.14
10/20/2011 4:30	8.76	4.51	16.66	0.93	1.68	1.93
10/20/2011 4:45	8.68	4.52	16.32	0.85	1.69	1.59
10/20/2011 5:00	8.58	4.50	15.96	0.75	1.67	1.23
10/20/2011 5:15	8.44	4.49	15.70	0.61	1.66	0.97
10/20/2011 5:30	8.28	4.49	15.02	0.45	1.66	0.29
10/20/2011 5:45	8.09	4.48	14.73	0.26	1.65	0.00
10/20/2011 6:00	7.89	4.48	14.34	0.06	1.65	-0.39
10/20/2011 6:15	7.69	4.48	13.97	-0.14	1.65	-0.76
10/20/2011 6:30	7.48	4.46	13.61	-0.35	1.63	-1.12
10/20/2011 6:45	7.27	4.45	13.20	-0.56	1.62	-1.53
10/20/2011 7:00	7.05	4.43	12.82	-0.78	1.60	-1.91
10/20/2011 7:15	6.84	4.41	12.53	-0.99	1.58	-2.20
10/20/2011 7:30	6.63	4.39	12.16	-1.20	1.56	-2.57
10/20/2011 7:45	6.44	4.36	11.92	-1.39	1.53	-2.82
10/20/2011 8:00	6.26	4.34	11.72	-1.57	1.51	-3.01
10/20/2011 8:15	6.10	4.32	11.51	-1.73	1.49	-3.22
10/20/2011 8:30	5.96	4.30	11.35	-1.87	1.47	-3.38
10/20/2011 8:45	5.83	4.28	11.27	-2.00	1.45	-3.46
10/20/2011 9:00	5.72	4.25	11.20	-2.11	1.42	-3.53
10/20/2011 9:15	5.63	4.23	11.19	-2.20	1.40	-3.54
10/20/2011 9:30	5.57	4.21	11.27	-2.26	1.38	-3.46
10/20/2011 9:45	5.53	4.18	11.42	-2.31	1.35	-3.31
10/20/2011 10:00	5.52	4.17	11.60	-2.31	1.34	-3.13
10/20/2011 10:15	5.56	4.16	11.89	-2.27	1.33	-2.84
10/20/2011 10:30	5.62	4.15	12.21	-2.21	1.32	-2.52
10/20/2011 10:45	5.72	4.14	12.58	-2.11	1.31	-2.15
10/20/2011 11:00	5.84	4.13	12.92	-1.99	1.30	-1.81
10/20/2011 11:15	5.98	4.12	13.28	-1.85	1.29	-1.45
10/20/2011 11:30	6.14	4.11	13.62	-1.69	1.28	-1.11
10/20/2011 11:45	6.31	4.07	14.01	-1.52	1.24	-0.72

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/20/2011 12:00	6.50	4.09	14.43	-1.33	1.26	-0.30
10/20/2011 12:15	6.70	4.07	14.84	-1.13	1.24	0.11
10/20/2011 12:30	6.91	4.08	15.28	-0.92	1.25	0.55
10/20/2011 12:45	7.13	4.12	15.73	-0.70	1.29	1.00
10/20/2011 13:00	7.37	4.15	16.14	-0.46	1.32	1.41
10/20/2011 13:15	7.60	4.19	16.49	-0.23	1.36	1.76
10/20/2011 13:30	7.82	4.21	16.82	-0.01	1.38	2.09
10/20/2011 13:45	8.04	4.23	17.14	0.21	1.40	2.41
10/20/2011 14:00	8.24	4.25	17.41	0.41	1.42	2.68
10/20/2011 14:15	8.43	4.28	17.67	0.60	1.45	2.94
10/20/2011 14:30	8.61	4.31	17.87	0.78	1.48	3.14
10/20/2011 14:45	8.78	4.33	17.90	0.95	1.50	3.17
10/20/2011 15:00	8.93	4.36	18.18	1.10	1.53	3.45
10/20/2011 15:15	9.05	4.38	17.97	1.22	1.55	3.24
10/20/2011 15:30	9.14	4.41	18.26	1.31	1.58	3.53
10/20/2011 15:45	9.20	4.43	18.15	1.37	1.60	3.42
10/20/2011 16:00	9.24	4.45	18.02	1.41	1.62	3.29
10/20/2011 16:15	9.25	4.46	17.92	1.42	1.63	3.19
10/20/2011 16:30	9.23	4.47	17.67	1.40	1.64	2.94
10/20/2011 16:45	9.19	4.48	17.54	1.36	1.65	2.81
10/20/2011 17:00	9.13	4.49	17.27	1.30	1.66	2.54
10/20/2011 17:15	9.03	4.50	16.88	1.20	1.67	2.15
10/20/2011 17:30	8.90	4.51	16.45	1.07	1.68	1.72
10/20/2011 17:45	8.75	4.43	15.99	0.92	1.60	1.26
10/20/2011 18:00	8.55	4.45	15.52	0.72	1.62	0.79
10/20/2011 18:15	8.33	4.46	15.02	0.50	1.63	0.29
10/20/2011 18:30	8.10	4.45	14.59	0.27	1.62	-0.15
10/20/2011 18:45	7.87	4.44	14.15	0.04	1.61	-0.58
10/20/2011 19:00	7.64	4.43	13.73	-0.19	1.60	-1.00
10/20/2011 19:15	7.41	4.42	13.37	-0.42	1.59	-1.36
10/20/2011 19:30	7.18	4.40	12.98	-0.65	1.57	-1.75
10/20/2011 19:45	6.97	4.38	12.65	-0.86	1.55	-2.08
10/20/2011 20:00	6.76	4.36	12.34	-1.07	1.53	-2.40
10/20/2011 20:15	6.57	4.34	12.12	-1.26	1.51	-2.61
10/20/2011 20:30	6.39	4.32	11.86	-1.44	1.49	-2.87
10/20/2011 20:45	6.23	4.29	11.73	-1.60	1.46	-3.00
10/20/2011 21:00	6.09	4.27	11.58	-1.74	1.44	-3.15
10/20/2011 21:15	5.97	4.24	11.50	-1.87	1.41	-3.23
10/20/2011 21:30	5.86	4.21	11.48	-1.97	1.38	-3.25
10/20/2011 21:45	5.78	4.19	11.56	-2.05	1.36	-3.17

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/20/2011 22:00	5.73	4.17	11.60	-2.10	1.34	-3.13
10/20/2011 22:15	5.70	4.14	11.74	-2.13	1.31	-2.99
10/20/2011 22:30	5.69	4.12	11.93	-2.14	1.29	-2.80
10/20/2011 22:45	5.73	4.10	12.16	-2.11	1.27	-2.57
10/20/2011 23:00	5.79	4.09	12.45	-2.05	1.26	-2.28
10/20/2011 23:15	5.86	4.07	12.73	-1.97	1.24	-2.00
10/20/2011 23:30	5.96	4.06	13.01	-1.87	1.23	-1.72
10/20/2011 23:45	6.08	4.06	13.32	-1.75	1.23	-1.41
10/21/2011 0:00	6.21	4.06	13.64	-1.62	1.23	-1.09
10/21/2011 0:15	6.36	4.06	14.04	-1.47	1.23	-0.69
10/21/2011 0:30	6.52	4.05	14.25	-1.31	1.22	-0.48
10/21/2011 0:45	6.69	4.06	14.77	-1.14	1.23	0.04
10/21/2011 1:00	6.88	4.07	15.14	-0.95	1.24	0.41
10/21/2011 1:15	7.08	4.08	15.48	-0.75	1.25	0.75
10/21/2011 1:30	7.27	4.09	15.83	-0.56	1.26	1.10
10/21/2011 1:45	7.47	4.11	16.22	-0.36	1.28	1.49
10/21/2011 2:00	7.66	4.21	16.59	-0.17	1.38	1.86
10/21/2011 2:15	7.86	4.17	16.81	0.03	1.34	2.08
10/21/2011 2:30	8.05	4.18	17.07	0.22	1.35	2.34
10/21/2011 2:45	8.23	4.19	17.35	0.40	1.36	2.62
10/21/2011 3:00	8.39	4.20	17.57	0.56	1.37	2.84
10/21/2011 3:15	8.53	4.22	17.68	0.70	1.39	2.95
10/21/2011 3:30	8.66	4.23	17.75	0.83	1.40	3.02
10/21/2011 3:45	8.76	4.25	17.74	0.93	1.42	3.01
10/21/2011 4:00	8.85	4.28	17.79	1.02	1.45	3.06
10/21/2011 4:15	8.91	4.31	17.73	1.08	1.48	3.00
10/21/2011 4:30	8.95	4.32	17.65	1.12	1.49	2.92
10/21/2011 4:45	8.96	4.31	17.46	1.13	1.48	2.73
10/21/2011 5:00	8.95	4.31	17.31	1.12	1.48	2.58
10/21/2011 5:15	8.90	4.32	17.17	1.07	1.49	2.44
10/21/2011 5:30	8.84	4.33	16.88	1.01	1.50	2.15
10/21/2011 5:45	8.75	4.34	16.54	0.92	1.51	1.81
10/21/2011 6:00	8.63	4.35	16.17	0.80	1.52	1.44
10/21/2011 6:15	8.49	4.35	15.79	0.65	1.52	1.06
10/21/2011 6:30	8.32	4.35	15.38	0.49	1.52	0.65
10/21/2011 6:45	8.14	4.34	14.97	0.31	1.51	0.24
10/21/2011 7:00	7.94	4.34	14.55	0.11	1.51	-0.18
10/21/2011 7:15	7.74	4.33	14.13	-0.09	1.50	-0.60
10/21/2011 7:30	7.52	4.32	13.75	-0.31	1.49	-0.98
10/21/2011 7:45	7.32	4.31	13.48	-0.51	1.48	-1.25

**Attachment B-1: Summary of Water Levels and Elevations
Colonial Terminals, Plant #2
Savannah, Georgia**

Date and Time	Troll Data (ft)			Converted Water Elevation (ft amsl)		
	MW-09D	MW-12R	Savannah River	MW-09D	MW-12R	Savannah River
10/21/2011 8:00	7.11	4.29	12.85	-0.72	1.46	-1.88
10/21/2011 8:15	6.90	4.28	12.51	-0.93	1.45	-2.22
10/21/2011 8:30	6.69	4.27	12.54	-1.14	1.44	-2.19
10/21/2011 8:45	6.48	4.25	12.10	-1.35	1.42	-2.63
10/21/2011 9:00	6.30	4.22	11.84	-1.53	1.39	-2.89
10/21/2011 9:15	6.14	4.20	11.57	-1.69	1.37	-3.16
10/21/2011 9:30	5.98	4.18	11.51	-1.85	1.35	-3.23
10/21/2011 9:45	5.85	4.16	11.25	-1.99	1.33	-3.48
10/21/2011 10:00	5.73	4.14	11.24	-2.10	1.31	-3.49
10/21/2011 10:15	5.64	4.13	11.31	-2.19	1.30	-3.42
10/21/2011 10:30	5.58	4.14	11.32	-2.25	1.31	-3.41
10/21/2011 10:45	5.55	NA	11.44	-2.28	NA	-3.29
10/21/2011 11:00	5.55	NA	11.72	-2.29	NA	-3.02
10/21/2011 11:15	5.58	NA	11.96	-2.25	NA	-2.77
10/21/2011 11:30	NA	NA	12.30	NA	NA	-2.44

Notes:

ft - feet

ft amsl - feet above mean sea level

NA - Not Available

Attachment B-2
River Dilution Calculations

Attachment B-2: River Dilution Calculations
Colonial Terminals, Plant #2
Savannah, Georgia

Sample Location	Sample Date	Original Analytical Data							Data for Calculation						Average Concentration Between Wells (Linear)								
		VOC by EPA Method 8260 (ug/L)					Metals by 6010B (mg/L)		Unit: ug/L					Unit: mg/L		Unit: ug/L					Unit: mg/L		
		Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	Arsenic	Lead	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	Arsenic	Lead	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	Arsenic	Lead	
MW-16	9/1/2010	<1.0	<1.0	<1.0	<1.0	<1.0	NS	NS	0.5	0.5	0.5	0.5	0.5	0	0								
MW-29	9/1/2010	6.8	2.1	3.1	<1.0	<1.0	0.0025	<0.001	6.8	2.1	3.1	0.5	0.5	0.0025	0.0005	3.65	1.3	1.8	0.5	0.5	0.00125	0.00025	
MW-11R	9/1/2010	18,200	2,900	5,570	<250	218	<0.002	<0.001	18,200	2,900	5,570	125	218	0.001	0.0005	9103.4	1451.05	2786.55	62.75	109.25	0.00175	0.0005	
MW-26	9/2/2010	14,600	4,340	77.4	773	8	<0.002	<0.001	14,600	4,340	77.4	773	8	0.001	0.0005	16400	3620	2823.7	449	113	0.001	0.0005	
MW-25	9/2/2010	12,400	946	193	2,810	<100	0.26	1.36	12,400	946	193	2,810	50	0.26	1.36	13500	2643	135.2	1791.5	29	0.1305	0.68025	
MW-18	9/1/2010	80.6	34.9	72.2	58.4	8.4	0.0032	<0.010	80.6	34.9	72.2	58.4	8.4	0.0032	0.005	6240.3	490.45	132.6	1434.2	29.2	0.1316	0.6825	
MW-19	9/1/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<0.010	<0.001	0.5	0.5	0.5	0.5	0.5	0.005	0.0005	40.55	17.7	36.35	29.45	4.45	0.0041	0.00275	

Notes:

NS - Not Sampled

Bold values exceed the Risk Reduction Standards

Attachment B-2: River Dilution Calculations
Colonial Terminals, Plant #2
Savannah, Georgia

Sample Location	Sample Date	Parameters						Contaminant Mass Flux Rate Between Wells						Flow Rate			
		Distance between Wells (ft)	Depth of Plume (ft)	Area of Groundwater Flow (ft ²)	Hydraulic Conductivity (ft/day)	Hydraulic Gradient (ft/ft)	Groundwater Flow Rate (ft ³ /sec)	Unit: (ug/L)*(ft ³ /sec)					Unit: (mg/L)*(ft ³ /sec)		Flow Rate (ft ³ /s) - 7Q10	Total Flow Rate (ft ³ /s) - 7Q10	
								Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	Arsenic	Lead			
MW-16	9/1/2010																
MW-29	9/1/2010	140	15	2100	9.56	0.0015	0.0003	0.0013	0.0005	0.0006	0.0002	0.0002	0.0000	0.0000	6700	6700	
MW-11R	9/1/2010	98	15	1470	9.56	0.0015	0.0002	2.2210	0.3540	0.6799	0.0153	0.0267	0.0000	0.0000	6700	6700	
MW-26	9/2/2010	357	15	5355	9.56	0.0015	0.0009	14.5760	3.2174	2.5097	0.3991	0.1004	0.0000	0.0000	6700	6700	
MW-25	9/2/2010	77	15	1155	9.56	0.0015	0.0002	2.5879	0.5067	0.0259	0.3434	0.0056	0.0000	0.0001	6700	6700	
MW-18	9/1/2010	189	15	2835	9.56	0.0015	0.0005	2.9363	0.2308	0.0624	0.6748	0.0137	0.0001	0.0003	6700	6700	
MW-19	9/1/2010	126	15	1890	9.56	0.0015	0.0003	0.0127	0.0056	0.0114	0.0092	0.0014	0.0000	0.0000	6700	6700	

Totals													
987	--	14805	--	--	0.002457	22.3352	4.3148	3.2899	1.4420	0.1480	0.0001	0.0005	

Notes:

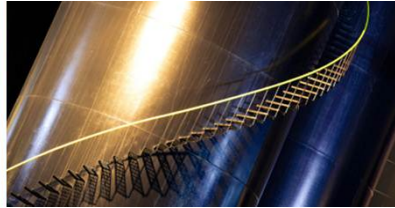
NS - Not Sampled

Bold values exceed the Risk Reduction Standards

7Q10	Contaminant Concentration in River						
	VOC (unit: ug/L)				Metal (unit: mg/L)		
		3.33E-03	6.44E-04	4.91E-04	2.15E-04	2.21E-05	1.34E-08

Appendix C

Calculation of Risk-Based Vapor Intrusion Criteria



Appendix C – Calculation of Risk-
Based Vapor Intrusion Criteria
Voluntary Remediation Plan and Application
Colonial Terminals, Plant #2

Prepared for:
Colonial Terminals, Inc.
Savannah, Georgia

Prepared by:
ENVIRON International Corporation

November 2012

Project Number:
07-30114B



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Acronyms and Abbreviations

AST	Aboveground Storage Tank
ATSDR	Agency for Toxic Substances and Disease Registry
cm	Centimeters
HEAST	Health Effects Assessment Summary Tables
IRIS	Integrated Risk Information System
m	Meters
MDEQ	Michigan Department of Environmental Quality
NCEA	National Center for Environmental Assessment
PCE	Tetrachloroethene
PPRTV	Provisional Peer Reviewed Toxicity Values
RBC	Risk Based Criteria
RME	Reasonable Maximum Exposure
TCE	Trichloroethene
USEPA	United States Environmental Protection Agency
VRP	Voluntary Remediation Program

1 Introduction

This report describes the derivation of risk-based criteria that are intended to be protective of potential vapor intrusion exposures that could result from impacts to the soil and groundwater at the Colonial Terminal, Plant #2 site in Savannah, Georgia (the “site”). The site and adjacent properties are depicted on Figure 1 of the Voluntary Remediation Program (VRP) Application. The criteria derived in this report are based on the protection of expected exposures to soil and groundwater under current and reasonably expected future uses. The derivation of these criteria is consistent with United States Environmental Protection Agency (USEPA) guidance.

The remainder of this report is organized as follows:

- Section 2 discusses the scenarios for potential vapor intrusion exposure that form the basis for the derivation of the risk-based criteria.
- Section 3 discusses the toxicity values used in the derivation of the risk-based criteria.
- Section 4 discusses the physical and chemical parameters used in the derivation.
- Section 5 discusses the calculation of criteria for routine worker vapor intrusion exposures.

2 Exposure Assessment

2.1 Conceptual Site Model for Vapor Intrusion

The site is bordered and bounded by the Savannah River to the north and has been used since the late 1970s as a bulk storage facility for a variety of products including chlorinated solvents, petroleum compounds, food-grade products, and kaolin clay. The site is developed with an approximately 60,000-square foot warehouse building, approximately 50 aboveground storage tanks (ASTs) used for bulk storage, truck loading areas, a fueling station, and a concrete-paved loading dock for barges in the Savannah River. The remaining areas of the site include gravel-covered roads and parking areas, rail spurs, and earthen-bermed tank farms. Administrative buildings are located on the adjacent parcel to the east-northeast and are not considered to be a part of the site. The area surrounding the site is zoned for industrial purposes.

The scenario for potential vapor intrusion exposure to routine workers current and reasonably-expected future conditions at the Site. These workers could inhale vapors in indoor air that migrate into the current or potential future buildings from unsaturated soil or groundwater.

2.2 Exposure Factors

Standard default exposure factors recommended by USEPA for estimating reasonable maximum exposures (RMEs) are used in the derivation of the risk-based criteria, and are presented in **Attachment 1** to this appendix.

3 Toxicity Values

According to USEPA, the hierarchy of sources for toxicity values used in quantitative risk computations is as follows (USEPA, 2003):

1. Integrated Risk Information System (IRIS);
2. Provisional Peer Reviewed Toxicity Values (PPRTV); and
3. Other Toxicity Values (e.g., historical Health Effects Assessment Summary Tables [HEAST], National Center for Environmental Assessment [NCEA] provisional values, and Agency for Toxic Substances and Disease Registry [ATSDR]).

When a toxicity value is not available from the first two tiers of the hierarchy, other USEPA and non-USEPA sources of toxicity values were consulted. If no inhalation value was identified for a constituent, then that constituent was not included in the calculation. Route-to-route extrapolation of toxicity values was not performed, following USEPA guidance (USEPA, 2009). The toxicity values and their sources used in the derivation of the risk-based criteria are summarized in **Attachment 1** of this appendix.

4 Physical and Chemical Parameters

The physical and chemical parameters used in this risk evaluation are based on the hierarchy USEPA used in the Soil Screening Guidance (USEPA 1996). The values used in the risk evaluation and their sources are presented in **Attachment 1** of this appendix.

5 Routine Worker Volatilization into Indoor Air

As discussed previously, routine workers at the site could inhale vapors from unsaturated soil or groundwater that migrate into indoor air. The risk based criteria (RBC) for vapor intrusion were derived using a vapor intrusion modeling approach recommended by USEPA for screening-level analysis, as discussed below. The calculation of the RBC is provided in **Attachment 2** of this appendix.

The RBC for potential routine worker exposure to constituents in soil and groundwater via assumed vapor intrusion are calculated as follows:

$$RBC_{ca} = \frac{TR \cdot AT_c}{URF \cdot ET \cdot EF \cdot ED} C_{building}$$

$$RBC_{nc} = \frac{THQ \cdot RfC \cdot AT_{nc}}{ET \cdot EF \cdot ED} C_{building}$$

where

- TR is the target cancer risk used for screening (10^{-5});
- THQ is the target hazard quotient used for screening;
- AT_c and AT_{nc} are averaging time for cancer and noncancer effects, respectively;
- URF is the unit risk factor;
- RfC is the reference concentration;
- ET is exposure time;
- EF is exposure frequency;
- ED is exposure duration; and,
- $C_{building}$ is the indoor air concentration.

The indoor air concentration was estimated using the following relationships described by Johnson and Ettinger (1991):

$$C_{building} = \alpha C_{source}$$

where C_{source} is the source vapor concentration that is normalized to a unit concentration in soil (1 mg/kg) or groundwater (1 mg/L), and α is an attenuation coefficient that is given by the following equation:

$$\alpha = \frac{\left[\frac{D_T^{eff} A_B}{Q_{building} L_T} \right] \exp\left(\frac{Q_{soil} L_{crack}}{D^{crack} A_{crack}} \right)}{\exp\left(\frac{Q_{soil} L_{crack}}{D^{crack} A_{crack}} \right) + \left[\frac{D_T^{eff} A_B}{Q_{building} L_T} \right] + \left[\frac{D_T^{eff} A_B}{Q_{soil} L_T} \right] \left[\exp\left(\frac{Q_{soil} L_{crack}}{D^{crack} A_{crack}} \right) - 1 \right]}$$

The derivation of this equation and definition of the equation parameters can be found in Johnson and Ettinger's 1991 journal article, and therefore, are not repeated here.

The effective diffusion coefficient term D_T^{eff} in the equation for the attenuation coefficient α is calculated based on a "sandy-clay" soil, which is the predominant soil type. Therefore, a soil type of sandy-clay was assumed in the calculation of the vapor intrusion RBC. The soil-water profile in the vadose zone was estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for sandy-clay (USEPA 2004).

The distance between onsite groundwater and the foundation of a slab-on-grade commercial building L_T was estimated to be approximately 2.9 meters (m), which is the difference between the typical depth to groundwater on-site of 3.05 m (10 feet) and a conservatively assumed building foundation thickness of 15 centimeters (cm). The cracks in the building foundation were conservatively assumed to be filled with dry sand. The remaining parameters in the equation for the attenuation coefficient α , which relate to building characteristics, are based on default values presented in the Michigan Department of Environmental Quality (MDEQ) technical support document for assessing vapor intrusion into commercial buildings (MDEQ, 1998)¹. The rationale for these inputs is discussed in the MDEQ guidance, and therefore, is not repeated here.

The source vapor concentration C_{source} for a constituent in soil is calculated from the constituent's unit concentration in soil C_{soil} , as follows:

$$C_{\text{source}} = C_{\text{soil}} \left(\frac{K_d}{H} + \frac{\theta_w}{\rho_b H} + \frac{\theta_a}{\rho_b} \right)^{-1}$$

where

- K_d is the equilibrium-partitioning coefficient;
- H is the Henry's law constant;
- θ_w is the water-filled soil porosity;
- ρ_b is the soil bulk density; and,
- θ_a is the air-filled soil porosity.

The calculations included a mass balance check to ensure that the assumed mass of a chemical infiltrating into the building over the assumed exposure period does not exceed an upper-bound estimate of the chemical's mass in the vadose zone underlying the building. The estimate of the chemical's mass in the vadose zone was conservatively estimated by assuming a unit concentration of the chemical from ground surface to the water table. The attenuation coefficient α_{ML} used in the mass balance check is given by the following equation:

¹ Factors for assessing this pathway for commercial/industrial buildings, including assumptions regarding building characteristics, are not available from GA EPD or USEPA. Therefore, in the absence of state-specific guidance, the input values developed by MDEQ have been used.

$$\alpha_{ML} = \left(\frac{\rho_b \cdot K_d}{H} + \frac{\theta_w}{H} + \theta_a \right) \cdot \left(\frac{A_B \cdot \Delta H}{Q_{building} \cdot ED} \right)$$

where

- A_B is the area of the building footprint,
- ΔH is the contaminant thickness (the distance between groundwater and the building foundation (2.9 m), and
- $Q_{building}$ is the air flow rate through the building.

These parameters are included in **Attachment 2** of this appendix.

The source vapor concentration for a constituent in groundwater is calculated from the constituent's unit concentration in groundwater C_{gw} , as follows:

$$C_{source} = C_{gw} \cdot H$$

The RBC for soil and groundwater volatilization to indoor air are presented in **Table 1** and **Table 2** of this appendix and summarized below:

Soil-Based RBC

Constituent	RBC (mg/kg)
1,1-Dichloroethene	200
cis-1,2-Dichloroethene	--
Trans-1,2-Dichloroethene	--
Methylene Chloride	590
Tetrachloroethene	40
Trichloroethene	2.0
Vinyl Chloride	6.3

Groundwater-Based RBC

Constituent	RBC (mg/L)
1,1-Dichloroethene	1,500
cis-1,2-Dichloroethene	--
Trans-1,2-Dichloroethene	--
Methylene Chloride	13,000
Tetrachloroethene	430
Trichloroethene	25
Vinyl Chloride	39

6 References

- Johnson, P. C., and R. A. Ettinger. 1991. Heuristic model for predicting the intrusion rate of contaminant vapors into buildings. *Environ. Sci. Technol.* 25(8):1445-1452.
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Appendix C Tables

**Table 1: Summary of Risk-Based Criteria for Soil
Colonial Terminal, Savannah, Georgia**

Chem Group	Chemical	CASRN	Carc Class	RBC (mg/kg)
VOC	1,1-Dichloroethene	75-35-4	C	2.0E+02
VOC	cis-1,2-Dichloroethene	156-59-2	ID	
VOC	trans-1,2-Dichloroethene	156-60-5	ID	
VOC	Methylene Chloride	75-09-2	LC	5.9E+02
VOC	Tetrachloroethene	127-18-4	LC	4.0E+01
VOC	Trichloroethene	79-01-6	HC	2.0E+00
VOC	Vinyl Chloride	75-01-4	A	6.3E+00
Notes:				
RBC are risk-based criteria for unsaturated soils.				
The target risk level for chemicals designated as Class A and B, Carcinogenic To Humans (HC), and Likely To be Carcinogenic To Humans (LC) is 10 ⁻⁵ .				
The target risk level for chemicals designated as Class C and D carcinogens and Data Are Inadequate for An Assessment of Human Carcinogenic Potential (ID) is 10 ⁻⁴ .				
The target hazard quotient for all chemicals is 1.				
Neither URFs nor RfCs are available from the hierarchy of sources discussed in Section 3 for cis- and trans-1,2-dichloroethene; therefore, vapor intrusion criteria are				

**Table 2: Summary of Risk-Based Criteria for Groundwater
Colonial Terminal, Savannah, Georgia**

Chem Group	Chemical	CASRN	Carc Class	RBC (mg/L)
VOC	1,1-Dichloroethene	75-35-4	C	1.5E+03
VOC	cis-1,2-Dichloroethene	156-59-2	ID	
VOC	trans-1,2-Dichloroethene	156-60-5	ID	
VOC	Methylene Chloride	75-09-2	LC	1.3E+04
VOC	Tetrachloroethene	127-18-4	LC	4.3E+02
VOC	Trichloroethene	79-01-6	HC	2.5E+01
VOC	Vinyl Chloride	75-01-4	A	3.9E+01
Notes:				
RBC are risk-based criteria.				
The target risk level for chemicals designated as Class A and B, Carcinogenic To Humans (HC), and Likely To be Carcinogenic To Humans (LC) is 10 ⁻⁵ .				
The target risk level for chemicals designated as Class C and D carcinogens and Data Are Inadequate for An Assessment of Human Carcinogenic Potential (ID) is 10 ⁻⁴ .				
The target hazard quotient for all chemicals if 1.				
Neither URFs nor RfCs are available from the hierarchy of sources discussed in Section 3 for cis- and trans-1,2-dichloroethene; therefore, vapor intrusion criteria are not calculated.				

Appendix C, Attachment 1

Risk Calculation Inputs

Contents:

- Toxicity Values
- Physical and Chemical Properties
- Exposure Factors

**Attachment 1: Toxicity Values
Colonial Terminal, Savannah, Georgia**

Chem Group	Chemical	CASRN	Cancer Classification			URF (mg/m ³) ⁻¹			RfC (mg/m ³)			
			Group	Ref	Note	Value	Ref	Notes	Value	UF	Ref	Notes
VOC	1,1-Dichloroethene	75-35-4	C	1					2.0E-01	30	1	
VOC	cis-1,2-Dichloroethene	156-59-2	ID	1							1	90
VOC	trans-1,2-Dichloroethene	156-60-5	ID	1							1	90
VOC	Methylene Chloride	75-09-2	LC	1		1.0E-05	1	159	6.0E-01	30	1	
VOC	Tetrachloroethene	127-18-4	LC	1		2.6E-04	1		4.0E-02	1,000	1	
VOC	Trichloroethene	79-01-6	HC	1		4.1E-03	1	159	2.0E-03	100	1	
VOC	Vinyl Chloride	75-01-4	A	1		4.4E-03	1	79	1.0E-01	30	1	
Reference:												
1	USEPA. Integrated Risk Information System (IRIS). On-line database.											
Note:												
79	IRIS presents an inhalation URF for vinyl chloride of 4.4E-6 (ug/m3)-1 for continuous lifetime exposure during adulthood and a twofold increase to 8.8E-6 (ug/m3)-1 for continuous lifetime exposure from birth.											
90	Inadequate data exist to derive a toxicity value, according to the indicated reference.											
159	Because the chemical has a mutagenic mode of action according to USEPA, the SF and URF are adjusted by the following age-dependant adjustment factors (ADAFs) before use: 10 for ages 0 to 2; 3 for ages 2 to 16; and 1 for ages 16 and older (USEPA 2005).											

**Attachment 1: Physical and Chemical Properties
Colonial Terminal, Savannah, Georgia**

Chem Group	Chemical	CASRN	MW (g/mole)			K _{ow} (unitless)			K _{oc} (L/kg)			H (unitless)			D _{air} (m ² /d)			D _{water} (m ² /d)		
			Value	Ref	Notes	Value	Ref	Notes	Value	Ref	Notes	Value	Ref	Notes	Value	Ref	Notes	Value	Ref	Notes
VOC	1,1-Dichloroethene	75-35-4	9.7E+01	50.1		1.3E+02	44		5.8E+01	44	111	1.1E+00	44		7.8E-01	44		9.0E-05	44	
VOC	cis-1,2-Dichloroethene	156-59-2	9.7E+01	50.1		7.2E+01	44		3.6E+01	44	111	1.7E-01	44		6.4E-01	44		9.8E-05	44	
VOC	trans-1,2-Dichloroethene	156-60-5	9.7E+01	50.1		1.2E+02	44		5.2E+01	44	111	3.9E-01	44		6.1E-01	44		1.0E-04	44	
VOC	Methylene Chloride	75-09-2	8.5E+01	50.1		1.8E+01	44		1.2E+01	44	111	9.0E-02	44		8.7E-01	44		1.0E-04	44	
VOC	Tetrachloroethene	127-18-4	1.7E+02	50.1		4.7E+02	44		1.6E+02	44	111	7.5E-01	44		6.2E-01	44		7.1E-05	44	
VOC	Trichloroethene	79-01-6	1.3E+02	50.1		5.1E+02	44		1.7E+02	44	111	4.2E-01	44		6.8E-01	44		7.9E-05	44	
VOC	Vinyl Chloride	75-01-4	6.3E+01	50.1		3.2E+01	44		1.8E+01	44	111	1.1E+00	44		9.2E-01	44		1.1E-04	71	
Reference:																				
44	USEPA. 1996. Soil Screening Guidance: Technical Background Document and User Guide. Office of Emergency and Remedial Response. EPA/540/R-95/128. May.																			
50.1	USEPA. 1997. Superfund Chemical Data Matrix (SCDM). Office of Emergency and Remedial Response. September 12.																			
71	USEPA. 2002. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. Office of Solid Waste and Emergency Response. OSWER 9355.4-24. December.																			
Note:																				
111	ENVIRON used Equation (71) from Reference 44 to calculate Koc value using Log Kow value from indicated reference.																			

**Attachment 1: Exposure Factors for Routine Workers
Colonial Terminal, Savannah, Georgia**

	Routine Workers	
Indoor Vapor Inhalation		
Exposure Time (hours/day)	8	d
Exposure Frequency (d/yr)	250	b
Exposure Duration (yr)	25	b
Averaging Time, carc (hours)	613,200	a
Averaging Time, noncarc (hours)	219,000	a
References:		
a. Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual (Part A) Interim Final (EPA 1989).		
b. Standard default exposure factors. OSWER Directive 9285.6-03 (EPA 1991).		
d. Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual: Part F, Supplemental Guidance for Inhalation Risk Assessment (EPA 2009).		

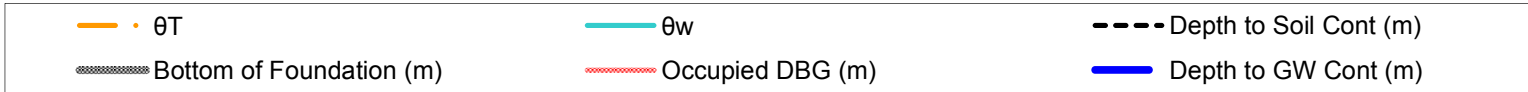
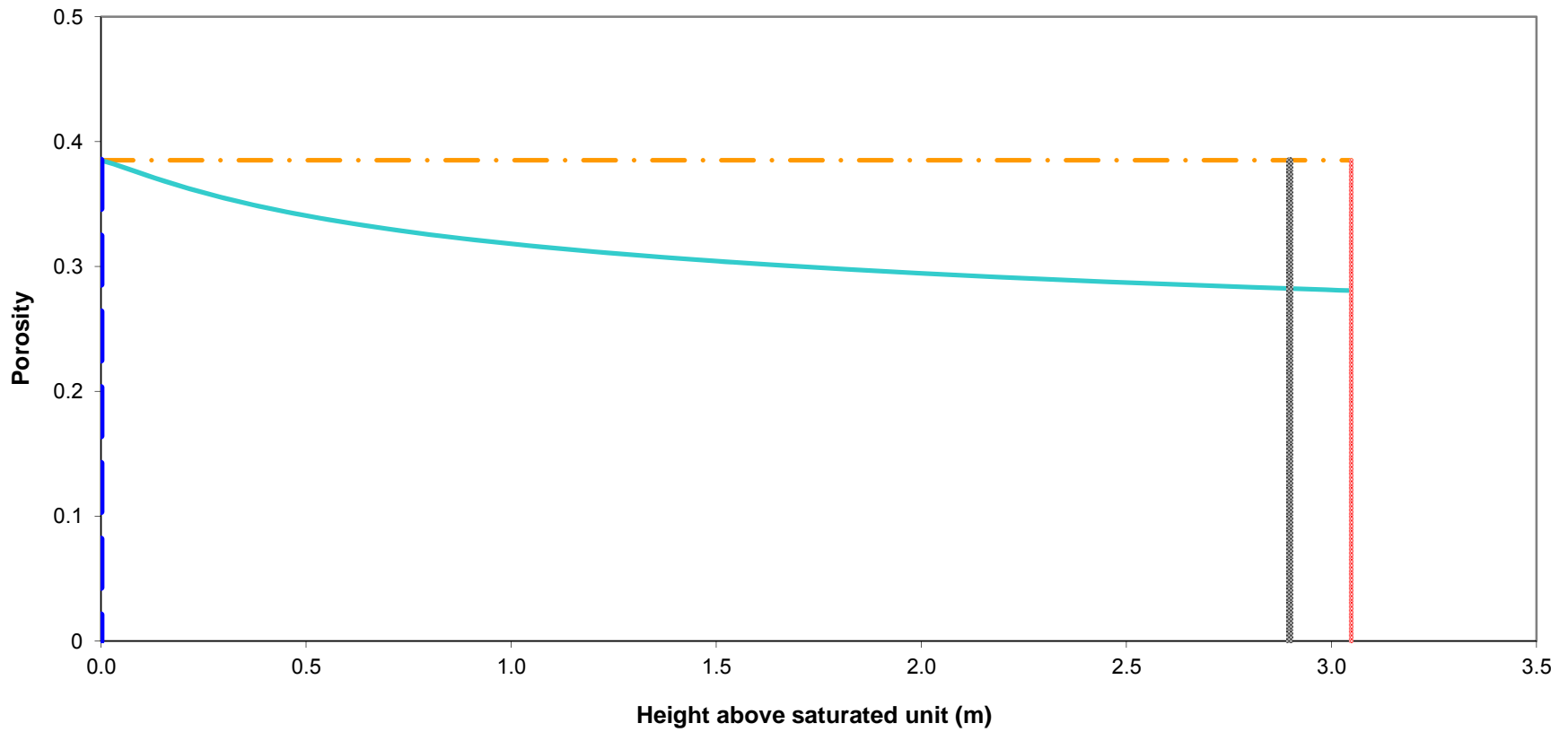
Appendix C, Attachment 2

Routine Worker Vapor Intrusion Calculations

Contents:

- Soil Moisture Profile for Comm/Ind Building (Slab-on-Grade)
- Normalized Indoor Air Concentration in a Comm/Ind Building (Slab-on-Grade) due to Vapor Intrusion from Subsurface Soil
- Risk-Based Criteria for Soil Vapor Intrusion into a Comm/Ind Building (Slab-on-Grade)
- Normalized Indoor Air Concentration in a Comm/Ind Building (Slab-on-Grade) due to Vapor Intrusion from Groundwater
- Risk-Based Criteria for Groundwater Vapor Intrusion into a Comm/Ind Building (Slab-on-Grade)

**Attachment 2: Soil Moisture Profile for Comm/Ind Building (Slab-on-Grade)
Colonial Terminal, Savannah, Georgia**



**Attachment 2: Normalized Indoor Air Concentration in a Comm/Ind Building (Slab-on-Grade)
due to Vapor Intrusion from Subsurface Soil
Colonial Terminal, Savannah, Georgia**

Chem Group	Chemical	CASRN	D _{air} (m ² /day)	D _{water} (m ² /day)	H (unitless)	D _{crack} (m ² /day)	D _{eff} ^T (m ² /day)	α _{so}	K _{oc} (L/kg)	K _d (L/kg)	C _{s, vap} (kg-soil/m ³)	α _{ML}	α	C _{bidg} (kg-soil/m ³)
VOC	1,1-Dichloroethene	75-35-4	7.78E-01	8.99E-05	1.07E+00	1.24E-01	2.66E-03	8.21E-05	5.82E+01	1.16E-01	3.00E+03	1.47E-06	1.47E-06	4.42E-03
VOC	cis-1,2-Dichloroethene	156-59-2	6.36E-01	9.76E-05	1.67E-01	1.01E-01	2.23E-03	8.21E-05	3.56E+01	7.12E-02	6.55E+02	6.75E-06	6.75E-06	4.42E-03
VOC	trans-1,2-Dichloroethene	156-60-5	6.11E-01	1.03E-04	3.85E-01	9.73E-02	2.11E-03	8.21E-05	5.22E+01	1.04E-01	1.28E+03	3.46E-06	3.46E-06	4.42E-03
VOC	Methylene Chloride	75-09-2	8.73E-01	1.01E-04	8.98E-02	1.39E-01	3.09E-03	8.22E-05	1.17E+01	2.34E-02	4.44E+02	9.95E-06	9.95E-06	4.42E-03
VOC	Tetrachloroethene	127-18-4	6.22E-01	7.08E-05	7.54E-01	9.91E-02	2.13E-03	8.21E-05	1.56E+02	3.12E-01	1.42E+03	3.12E-06	3.12E-06	4.42E-03
VOC	Trichloroethene	79-01-6	6.83E-01	7.86E-05	4.22E-01	1.09E-01	2.35E-03	8.21E-05	1.68E+02	3.35E-01	7.89E+02	5.60E-06	5.60E-06	4.42E-03
VOC	Vinyl Chloride	75-01-4	9.16E-01	1.06E-04	1.11E+00	1.46E-01	3.13E-03	8.22E-05	1.85E+01	3.69E-02	3.96E+03	1.11E-06	1.11E-06	4.42E-03
Notes:	Soil and Building Characteristics				Crack	Vadose								
	SCS Soil texture class				Sand	Sandy Clay								
	Bulk density	kg/L	ρ _b	1.66	1.63									
	Total porosity	L/L-soil	θ _T	0.375	0.385									
	Water-filled porosity	L/L-soil	θ _w	0.055	0.282									
	Air-filled porosity	L/L-soil	θ _a	0.320	0.103									
	Organic carbon fraction	unitless	f _{oc}	0.002										
	Residual saturation	L/L-soil	θ _r	0.053										
	Hydraulic conductivity	cm/s	K	7.4E-03										
	Dynamic viscosity of water	g/cm-s	μ _w	0.01307										
	Density of water	g/cm ³	ρ _w	1.0										
	Gravitational acceleration	cm/s ²	g	980.7										
	Intrinsic permeability	cm ²	k	9.9E-08										
	Relative saturation	unitless	S _r	0.006										
	van Genuchten N	unitless	N	3.18										
	van Genuchten M	unitless	M	0.685										
	Relative air permeability	unitless	k _{ra}	0.996										
	Permeability to vapor	cm ²	k _v	9.9E-08										
	Distance from building foundation to source	m	L _{T-soil}	0.001										
	Bldg foundation thickness	m	L _{crack}	0.15										
	Bldg foundation length	m		19.29										
	Bldg foundation width	m		19.29										
	Bldg occupied height	m		2.44										
	Bldg occupied volume	m ³		907.93										
	Occupied depth below ground	m		0.0										
	Bldg area for vapor intrusion	m ²	A _B	372.1										
	Ratio of A _{crack} to A _B		η	1E-04										
	Area of cracks	m ²	A _{crack}	3.86E-02										
	Air exchange rate	hour ⁻¹	ach	2.0										
	Building ventilation rate	m ³ /day	Q _{bidg}	4.36E+04										
	Pressure difference between outdoors-indoors	kg/m-s ²	ΔP	1.0										
	Viscosity of air	kg/m-s	μ _a	1.8E-05										
	Crack length (bldg perimeter)	m	X _{crack}	77.16										
	Crack depth below ground	m	Z _{crack}	0.15										
	Crack radius	m	r _{crack}	5E-04										
	Soil gas flow rate into bldg	m ³ /day	Q _{soil}	3.59E+00										
	Averaging period	d	T	9.13E+03										
	Contaminant thickness	m	ΔH	2.8970										

**Attachment 2: Risk-Based Criteria for Soil Vapor Intrusion into a Comm/Ind Building (Slab-on-Grade)
Colonial Terminal, Savannah, Georgia**

Chem Group	Chemical	CASRN	Carc Class	C _{air} (mg/m ³)	Cancer			Noncancer			Combined
					URF (m ³ /mg)	Risk	RBC (mg/kg)	RfC (mg/m ³)	HQ	RBC (mg/kg)	RBC (mg/kg)
VOC	1,1-Dichloroethene	75-35-4	C	4.42E-03				2.0E-01	5.0E-03	2.0E+02	2.0E+02
VOC	cis-1,2-Dichloroethene	156-59-2	ID	4.42E-03							
VOC	trans-1,2-Dichloroethene	156-60-5	ID	4.42E-03							
VOC	Methylene Chloride	75-09-2	LC	4.42E-03	1.0E-05	3.6E-09	2.8E+03	6.0E-01	1.7E-03	5.9E+02	5.9E+02
VOC	Tetrachloroethene	127-18-4	LC	4.42E-03	2.6E-04	9.4E-08	1.1E+02	4.0E-02	2.5E-02	4.0E+01	4.0E+01
VOC	Trichloroethene	79-01-6	HC	4.42E-03	4.1E-03	1.5E-06	6.8E+00	2.0E-03	5.0E-01	2.0E+00	2.0E+00
VOC	Vinyl Chloride	75-01-4	A	4.42E-03	4.4E-03	1.6E-06	6.3E+00	1.0E-01	1.0E-02	9.9E+01	6.3E+00

**Attachment 2: Normalized Indoor Air Concentration in a Comm/Ind Building (Slab-on-Grade)
due to Vapor Intrusion from Groundwater
Colonial Terminal, Savannah, Georgia**

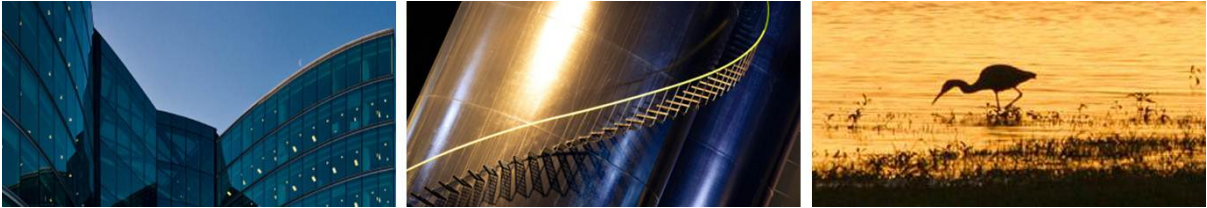
Chem Group	Chemical	CASRN	D _{air} (m ² /day)	D _{water} (m ² /day)	H (unitless)	D _{crack} (m ² /day)	D _{eff} ^T (m ² /day)	α _{soil}	α _{slab}	α _w	C _{bidg} (L-water/m ³)
VOC	1,1-Dichloroethene	75-35-4	7.78E-01	8.99E-05	1.07E+00	1.24E-01	1.93E-04	6.84E-03	8.24E-05	5.64E-07	6.04E-04
VOC	cis-1,2-Dichloroethene	156-59-2	6.36E-01	9.76E-05	1.67E-01	1.01E-01	4.98E-04	1.75E-02	8.24E-05	1.44E-06	2.41E-04
VOC	trans-1,2-Dichloroethene	156-60-5	6.11E-01	1.03E-04	3.85E-01	9.73E-02	3.26E-04	1.15E-02	8.24E-05	9.50E-07	3.66E-04
VOC	Methylene Chloride	75-09-2	8.73E-01	1.01E-04	8.98E-02	1.39E-01	8.11E-04	2.82E-02	8.24E-05	2.32E-06	2.09E-04
VOC	Tetrachloroethene	127-18-4	6.22E-01	7.08E-05	7.54E-01	9.91E-02	1.87E-04	6.63E-03	8.24E-05	5.46E-07	4.12E-04
VOC	Trichloroethene	79-01-6	6.83E-01	7.86E-05	4.22E-01	1.09E-01	2.84E-04	1.00E-02	8.24E-05	8.28E-07	3.49E-04
VOC	Vinyl Chloride	75-01-4	9.16E-01	1.06E-04	1.11E+00	1.46E-01	2.23E-04	7.90E-03	8.24E-05	6.52E-07	7.23E-04
Notes:	Crack Soil and Building Characteristics					Crack Soil					
	SCS Soil texture class					Sand					
	Bulk density	kg/L	ρ _b			1.66					
	Total porosity	L/L-soil	θ _T			0.375					
	Water-filled porosity	L/L-soil	θ _w			0.055					
	Air-filled porosity	L/L-soil	θ _a			0.320					
	Residual saturation	L/L-soil	θ _r			0.053					
	Hydraulic conductivity	cm/s	K			7.4E-03					
	Dynamic viscosity of water	g/cm-s	μ _w			0.01307					
	Density of water	g/cm ³	ρ _w			1.0					
	Gravitational acceleration	cm/s ²	g			980.7					
	Intrinsic permeability	cm ²	k			9.9E-08					
	Relative saturation	unitless	S _e			0.006					
	van Genuchten N	unitless	N			3.177					
	van Genuchten M	unitless	M			0.685					
	Relative air permeability	unitless	k _{rg}			0.996					
	Permeability to vapor	cm ²	k _v			9.88E-08					
	Distance from building foundation to source	m	L _{T-gw}			2.90					
	Bldg foundation thickness	m	L _{crack}			0.15					
	Bldg foundation length	m				19.29					
	Bldg foundation width	m				19.29					
	Bldg occupied height	m				2.44					
	Bldg occupied volume	m ³				907.93					
	Occupied depth below ground	m				0.0					
	Bldg area for vapor intrusion	m ²	A _B			372.1					
	Ratio of A _{crack} to A _B		η			1E-04					
	Area of cracks	m ²	A _{crack}			4E-02					
	Air exchange rate	hour ⁻¹	ach			2.00					
	Building ventilation rate	m ³ /day	Q _{bidg}			4.36E+04					
	Pressure difference between outdoors- indoors	kg/m-s ²	ΔP			1.0					
	Viscosity of air	kg/m-s	μ _a			1.8E-05					
	Crack length (bldg perimeter)	m	X _{crack}			77.16					
	Crack depth below ground	m	Z _{crack}			0.15					
	Crack radius	m	r _{crack}			5E-04					
	Soil gas flow rate into bldg	m ³ /day	Q _{soil}			3.59					

**Attachment 2: Risk Based Criteria for Groundwater Vapor Intrusion into a Comm/Ind Building (Slab-on-Grade)
Colonial Terminal, Savannah, Georgia**

Chem Group	Chemical	CASRN	Carc Class	C _{air} (mg/m ³)	Cancer			Noncancer			Combined
					URF (m ³ /mg)	Risk	RBC (mg/L)	RfC (mg/m ³)	HQ	RBC (mg/L)	RBC (mg/L)
VOC	1,1-Dichloroethene	75-35-4	C	6.04E-04				2.0E-01	6.9E-04	1.5E+03	1.5E+03
VOC	cis-1,2-Dichloroethene	156-59-2	ID	2.41E-04							
VOC	trans-1,2-Dichloroethene	156-60-5	ID	3.66E-04							
VOC	Methylene Chloride	75-09-2	LC	2.09E-04	1.0E-05	1.7E-10	5.9E+04	6.0E-01	7.9E-05	1.3E+04	1.3E+04
VOC	Tetrachloroethene	127-18-4	LC	4.12E-04	2.6E-04	8.7E-09	1.1E+03	4.0E-02	2.4E-03	4.3E+02	4.3E+02
VOC	Trichloroethene	79-01-6	HC	3.49E-04	4.1E-03	1.2E-07	8.6E+01	2.0E-03	4.0E-02	2.5E+01	2.5E+01
VOC	Vinyl Chloride	75-01-4	A	7.23E-04	4.4E-03	2.6E-07	3.9E+01	1.0E-01	1.7E-03	6.1E+02	3.9E+01

Appendix D

Ecological Assessment



Appendix D – Ecological Assessment
Voluntary Remediation Plan and Application
Colonial Terminals, Plant #2

Prepared for:
Colonial Terminals, Inc.
Savannah, Georgia

Prepared by:
ENVIRON International Corporation

November 2012

Project Number:
07-30114B



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Attachment D-2:	Select Fishery Habitat Maps from the Savannah Harbor Expansion Project Environmental Impact Statement.

Acronyms and Abbreviations

11DCE	1,1-Dichloroethylene
7Q10	Lowest 7-day average flow that occurs (on average) once every 10 years
ATSDR	Agency for Toxic Substances and Disease Registry
c12DCE	Cis 1,2-Dichloroethylene
EIS	Environmental Impact Statement
ERM	Environmental Resource Management, Inc.
Ga DNR	Georgia Department of Natural Resources
GNHP	Georgia Natural Heritage Program
HQ	Hazard Quotient
iPAC	Information Planning and Conservation Report
ISWQS	In-Stream Water Quality Standards
NWI	National Wetlands Inventory
PCE	Tetrachloroethylene
t12DCE	Trans 1,2-Dichloroethylene
TCE	Trichloroethylene
USACOE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Constituents
µg/L	Micrograms per liter

1 Environmental Setting (Problem Formulation)

The approximately 34.6-acre Colonial Terminals, Plant #2 site (the “site”) is located on North Lathrop Avenue and abuts the tidally-influenced Savannah River in Savannah, Chatham County, Georgia. The site is situated in an industrial-zoned area of Savannah approximately sixteen miles upstream from where the Savannah River empties into the Atlantic Ocean (**Figure D-1**).

1.1 Terrestrial Habitat

Based on visual observations and aerial photographs of the site, the site is highly industrialized and as indicated in the 2005 Corrective Action Plan “does not provide habitat for plants or animals” (ERM, 2005). In the absence of natural habitats and vegetation and based on the significant amount of human disturbance, biologically significant populations of wildlife receptors will not be present in the terrestrial areas of the site.

1.2 Aquatic Habitat

The Savannah River in the vicinity of the site is split into two channels by Hutchinson Island (**Figure D-2**). This figure (as well as **Figure D-1**) shows a striking difference between these two channels. The southwest channel adjacent to the site (Front River) is approximately 900 feet wide. This is a part of the Marsh Island Channel dredging area, and is maintained by periodic dredging by the US Army Corps of Engineers (USACOE) to a depth of between 40 and 43 feet (**Figure D-3**). The northeast channel of the Savannah River, on the other side of Hutchinson Island (the Back River, near Pennyworth Island), is about 1,600 feet wide. It is undredged, and is generally less than 15 feet deep in this area (**Figure D-2**). In general, the Back River (the channel on the north side of Hutchinson Island that is not adjacent to the site) is much more attractive aquatic habitat than the Front River (the south side of Hutchinson island that is adjacent to the site) because the Back River is undredged, mostly unaltered, and has a much lower level of human disturbance.

The Savannah River, as a whole, provides habitat for biologically significant populations of wildlife receptors. The recent USACOE Savannah Harbor Expansion Project has exhaustively reported on aquatic wildlife in the area. In particular, the section of the Savannah River near the site may provide some habitat for American shad, striped bass, and sturgeon species. Fish are likely to be present in the Marsh Island Channel/Front River near the site at least some of the time, notwithstanding the frequent disturbance from shipping and dredging and the highly-altered habitat.

1.3 Protected Species

Information from the Georgia Natural Heritage Program (GNHP) was reviewed to identify potential environmental receptors near the site (**Attachment D-1**). Also, a US Fish and Wildlife Information Planning and Conservation (iPAC) report was prepared for the site vicinity (**Attachment D-1**). The rare, imperiled, and critically imperiled plant and animal species likely to occur in Chatham County and/or in the Lower Savannah River (Watershed Code: 03060109) were compiled from these sources and are summarized in **Table D-1**. These data were obtained from the GNHP (Ga DNR, 2012a, 2012b), which catalogs wildlife in Georgia by county and watershed. This list includes state and federally listed protected species which may (or may not) be present in the area based on their geographic range. Environmental factors, which include, (but are not limited to) temperature, season, rainfall, human disturbance, and migration

patterns may affect the potential presence of these species. However, the actual occurrence of these organisms near the site has not been confirmed.

In general, the terrestrial species on this list are extremely unlikely to occur near the site due to the lack of natural habitat for cover and foraging. The industrial hardscape and substantial human disturbance would cause wildlife to avoid the site.

Aquatic protected species listed in the above sources include fish, sea turtles, marine mammals, aquatic insects, aquatic invertebrates, and aquatic plants.

- Sea turtles and marine mammals (which are all protected species) are extremely unlikely to occur near the site because of the intense human disturbance (including dredging and ship traffic).
- Protected aquatic insects are unlikely to occur near the site. The one listed dragonfly has aquatic larvae that are unlikely to inhabit deep waters such as those near the site in the dredged/maintained channel of the Front River.
- Protected aquatic invertebrates are unlikely to occur near the site. Both mussels are unlikely to colonize the relatively harder riverbed in the Front River where strongly consolidated sediment remains after dredging.
- Aquatic plants are unlikely to occur near the site, as the area near the site is either too deep, too frequently disturbed by ship loading/unloading, or impermeable industrial hardscape.
- Endangered fish may possibly be present in the dredged channel of the Front River.

Based on additional review of the preferred habitat of the listed fish species, all but two species do not have habitat near the site, and therefore are unlikely to be present in the vicinity of the site. Their habitat is described on **Table D-1**. However, the shortnose sturgeon (federally- and state-listed as endangered) and the Atlantic sturgeon (a state species of concern) may potentially both live in large rivers and estuaries and may potentially occur near the site.

The USACOE Environmental Impact Statement (EIS) for the Savannah Harbor Deepening Project (USACOE, 2012) provides a wealth of information about shortnose sturgeon in the Savannah River. The shortnose sturgeon feeds in relatively soft sediment or gravel that may be home to established communities of benthic invertebrates:

“The Shortnose sturgeon is a suctional feeder and its preferred prey is small gastropods. Sturgeon forage by slowly swimming along the bottom, lightly dragging their barbels until they feel something that may resemble food, at which time they suck it up in their protrusible mouths. The non-food items are expelled through their gills. Juveniles may be even more indiscriminate, and just vacuum their way across the bottom. Soft sediments with abundant prey items such as macroinvertebrates are thought to be preferred by Shortnose sturgeon for foraging, so established benthic communities are important. They are thought to forage for small epifaunal and infaunal organisms over gravel and mud.”
(USACOE, 2012, Appendix B of that document).

The Atlantic sturgeon is likely to feed in a similar manner given the similarity between these species. However, given that the Marsh Island Channel/Front River is dredged to maintain its depth and has substantial river traffic, the community of benthic invertebrates is likely to be frequently disturbed. Furthermore, dredged areas tend to have consolidated sediments (as the softer sediments are dredged out) that are likely to be poor habitat for benthic invertebrates.

Furthermore, the fisheries maps of the EIS (USACOE, 2012, Appendix P of that document) indicate that the area of the Front River near the site, in its existing condition is:

- not suitable habitat for juvenile sturgeon in January (when they might possibly be in the area);
- not suitable habitat for adult sturgeon in August (because of low dissolved oxygen); and,
- suitable habitat only for adult sturgeon and only during winter months.

However, the area near the site is proposed to be dredged deeper. All of the proposed harbor deepening scenarios (even the least alteration, to 44 feet) will cause a loss of adult sturgeon in winter months because of low dissolved oxygen. These maps are presented in **Attachment D-2**.

In summary, due to the marginal habitat in the river near the site and the limited amount of time that sturgeon (adults only) may be in proximity to the site (i.e., only during the winter), there is a very low potential for exposure of sturgeon to the site.

1.4 Wetlands

ENVIRON searched the National Wetlands Inventory (NWI, 2012) for the purpose of identifying wetlands in the project area (**Figure D-4**). Wetland areas were not identified onsite, and the nearest wetlands are located approximately one-quarter mile to the southwest and northeast of the site.

1.5 Summary

In summary, there are no terrestrial organisms or protected habitats at the site that would be associated with significant exposure or unacceptable risks. Therefore, the potential ecological exposures are limited to aquatic organisms, particularly fish. However, because the Front River/Marsh Island channel adjacent to the site is a dredged, disturbed habitat that is of relatively low quality and maintains a high volume of boat traffic, significant exposures to aquatic receptors are also considered to be unlikely. Sturgeons appear to be the lone protected species that may have habitats in areas near the site. However, natural (e.g., low dissolved oxygen) and anthropogenic conditions (e.g., dredging) have resulted in the channel areas near the site being less than optimal for sturgeon to habitat and potentially contain limited food sources (i.e., invertebrates) for the sturgeon.

2 Exposure Assessment

Based on the information presented in the Environmental Setting (Section 1), the exposure assessment is focused on potential exposures to surface water in the Savannah River adjacent to the site. The analytical data available for the Savannah River (as it pertains to the Colonial site) consists of surface water data collected in 2007 and 2010. The sampling efforts included three surface water sampling events in 2007 and one sampling event in 2010, and samples were collected from three locations during each event (SW-01, SW-02, and SW-03, as shown on **Figure D-5**). In each event, the samples were analyzed for tetrachloroethylene (PCE); trichloroethylene (TCE); cis-1,2-dichloroethylene (c12DCE); trans-1,2-dichloroethylene (t12DCE); 1,1-dichloroethylene (11DCE); vinyl chloride (VC), methylene chloride (MECL) arsenic, chromium, and lead.

The laboratory results showed that PCE, TCE, and c12DCE were the only constituents detected in the surface water samples. The results are described below, and a summary of the surface water data is provided in **Table D-2**.

- PCE was detected in only three of the 12 samples collected, and only during the August 2007 sampling event (in which it was detected at all three sampling locations).
- TCE was detected in only one of the 12 samples collected; specifically, it was detected in SW-02 only during the August 2007 sampling event (the detected concentration, 1.4 ug/L, was only slightly greater than laboratory detection limit of 1.0 µg/L).
- c12DCE was detected in five of the 12 samples collected; specifically, it was detected at SW-02 during the April 2007 event, and at SW-03 during all four sampling events. All five of the detected concentrations were 1.2 ug/L, which is only slightly greater than laboratory detection limit of 1.0 µg/L.

There is some uncertainty associated with using surface water data from any surface water body (due to potential, unknown upriver sources). This is especially true for a river such as the Savannah River, with its long history of industrial use (including a very large port nearby and upstream).

In addition to the surface water data from the sampling conducted in 2007 and 2010, a groundwater/river dilution model was used to conservatively predict instream concentrations of PCE, TCE, c12DCE, 11DCE, vinyl chloride, arsenic, and lead in the Savannah River. Specifically, the model estimates the concentrations of site-related constituents that might be present in the Savannah River in the area immediately adjacent to the site due to groundwater discharge to the river. To be conservative, the model based the mixing/dilution on the lowest 7-day average flow that occurs (on average) once every 10 years (i.e., the “7Q10” flow value). The model and associated predicted concentrations are presented in **Appendix B** of this document, and the predicted concentrations are reproduced in this appendix in **Table D-3**. The results of the model estimates that the in-river concentrations of metals and VOCs associated with the groundwater at the site would be orders of magnitude below the current laboratory detection limits, as shown on **Table D-3**.

3 Effects Assessment

Exposure to VOCs can have deleterious effects on wildlife receptors including decreases in body weight, reproduction, growth, and adult survival (Gallegos et, al. 2007). However, these compounds are not typically considered to be persistent in sediments due to their volatility and solubility (Fuschman 2003), and their natural volatilization from sediment and water into air can rapidly result in concentrations being diluted to below detection limits.

Arsenic and lead are naturally occurring and ubiquitous in the environment (Agency for Toxic Substances and Disease Registry, ATSDR 2007a, b). As such, most organisms have a capacity to biotransform and/or eliminate various amounts of these metals (Newman 1998; Leland and Kuwabara 1985). However, elevated concentrations of these constituents may result in adverse effects. Arsenic reacts with proteins and inhibits protein functions (ATSDR 2007a), while lead toxicity primarily targets the nervous system but may also affect blood (ATSDR, 2007b).

A summary of state and United States Environmental Protection Agency (USEPA) Region 4 surface water criteria for select VOCs, lead, and arsenic is presented in **Table D-4**. Due to the tidal influence on the Savannah River, saltwater and freshwater criteria were considered. The most conservative appropriate criterion for each constituent is shown on **Table D-4**.

The Georgia In-Stream Water Quality Standards (ISWQS; Georgia Code 391-3-6-.03, 2011) for VOCs are not based on ecological endpoints. As an example, the Georgia In-Stream Water Quality Criterion for PCE is 3.3 µg/L is identical to the USEPA National Recommended Water Quality Criterion for PCE based on human cancer risk from fish consumption (USEPA, 2002, 2012a). Therefore, the ISWQS VOC criteria are not useful or meaningful in the context of ecological risk for aquatic receptors in the Savannah River adjacent to the site. However, the ISWQS are presented in this risk evaluation for completeness.

The USEPA Region 4 criteria (USEPA, 2001) are based on ecological endpoints and are meaningful for ecological risk for wildlife receptors. USEPA Region 4 does not have criteria for TCE or vinyl chloride, so the value for PCE was used as a conservative surrogate for these constituents. The use of PCE as a surrogate for this purpose is conservative (i.e., protective) because PCE is generally regarded as more toxic to wildlife than either TCE or vinyl chloride.

4 Risk Characterization

Based on the assessment of potentially impacted wildlife receptors and surface water data obtained from historical sampling events, a potentially complete exposure pathway exists for some aquatic receptors to be exposed to site-related constituents. Specifically, fish in the Savannah River adjacent to the site could be exposed to site-related constituents via groundwater discharge to the river.

As discussed in Section 2, only three VOCs (cDCE, PCE, and TCE) have been historically detected in the surface water, though PCE and TCE have not been detected in the last two sampling events. In addition, for the purposes of the risk characterization portion of this Ecological Assessment, estimated concentrations of PCE, TCE, c12DCE, 11DCE, vinyl chloride, arsenic, and lead in the Savannah River were calculated using a model that incorporates the available groundwater data, groundwater-surface water discharge, and surface water flow.

Table D-5 compares the concentrations from surface water sampling (from **Table D-2**) and the groundwater/river dilution model output (from **Table D-3**) to the most stringent appropriate criteria (from **Table D-4**). Hazard quotients (HQs, the unitless ratio of the concentration to the criteria) are presented in **Table D-5**.

As shown in **Table D-5**, neither the maximum detected nor the modeled concentrations of the constituents exceed the most stringent appropriate criteria (that is, all the HQs are less than 1). Therefore, the regulated substances in the groundwater at the site do not pose an unacceptable risk to aquatic receptors.

5 References

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Appendix D Tables

Table D-1: Protected Species Information
Colonial Terminals, Plant #2
Savannah, Georgia

Scientific Name	Common Name	Area	Group	Global Rank	State Rank	Federal Status	State Status	Found Near Site?	Habitat in Georgia
<i>Pseudacris brimleyi</i>	Brimley's Chorus Frog	CC & LSR	Amphibian	G5	S1	--	SSC	Unlikely	Moist forests; swamps; bottomlands
<i>Pseudobranchius striatus striatus</i>	Broad-striped Dwarf Siren	LSR	Amphibian	G5T2T3	S3	--	SSC	Unlikely	Swamps; marshes; limesink ponds; cypress ponds
<i>Rana virgatipes</i>	Carpenter Frog	LSR	Amphibian	G5	S3	--	SSC	Unlikely	Heavily vegetated swamps, bogs, blackwater streams, ponds
<i>Ambystoma cingulatum</i>	Frosted Flatwoods Salamander	CC & LSR	Amphibian	G2	S2	LT	T	Unlikely	Pine flatwoods; moist savannas; isolated cypress/gum ponds
<i>Rana capito</i>	Gopher Frog	CC	Amphibian	G3	S3	--	R	Unlikely	Sandhills; dry pine flatwoods; breed in isolated wetlands
<i>Stereochilus marginatus</i>	Many-lined Salamander	CC & LSR	Amphibian	G5	S3	--	SSC	Unlikely	Sluggish, swampy streams and bayheads with substrate of leaf litter
<i>Haematopus palliatus</i>	American Oystercatcher	CC	Bird	G5	S2	--	R	Unlikely	Sandy beaches; tidal flats; salt marshes
<i>Haliaeetus leucocephalus</i>	Bald Eagle	CC & LSR	Bird	G5	S2	--	T	Unlikely	Edges of lakes & large rivers; seacoasts
<i>Tyto alba</i>	Barn owl	CC & LSR	Bird	G5	S3S4	--	SSC	Unlikely	Nests in large hollow trees or old buildings in areas with extensive pasture or grassland or other open habitats such as marsh.
<i>Rynchops niger</i>	Black Skimmer	CC & LSR	Bird	G5	S1	--	R	Unlikely	Tidal ponds; sandy beaches
<i>Nycticorax nycticorax</i>	Black-crowned Night-heron	CC & LSR	Bird	G5	S4	--	SSC	Unlikely	River swamps; marshes; cypress/gum ponds
<i>Himantopus mexicanus</i>	Black-necked Stilt	CC & LSR	Bird	G5	S3	--	SSC	Unlikely	Shallow ponds; lagoons
<i>Sternula antillarum</i>	Least Tern	CC & LSR	Bird	G4	S3	--	R	Unlikely	Sandy beaches; sandbars
<i>Lanius ludovicianus migrans</i>	Migrant Loggerhead Shrike	CC	Bird	G4T3Q	S3	--	SSC	Unlikely	Open woods; field edges
<i>Passerina ciris</i>	Painted Bunting	CC & LSR	Bird	G5	S3	--	SSC	Unlikely	Lower coastal plain in thickets, woodland borders, and brushy areas
<i>Charadrius melodus</i>	Piping Plover	CC	Bird	G3	S1	LT	T	Unlikely	Sandy beaches; tidal flats
<i>Picoides borealis</i>	Red-cockaded Woodpecker	CC & LSR	Bird	G3	S2	LE	E	Unlikely	Open pine woods; pine savannas
<i>Ammodramus maritimus</i>	Seaside Sparrow	CC	Bird	G4	S3	--	SSC	Unlikely	Salt marshes
<i>Elanoides forficatus</i>	Swallow-tailed Kite	CC & LSR	Bird	G5	S2	--	R	Unlikely	River swamps; marshes
<i>Charadrius wilsonia</i>	Wilson's Plover	CC	Bird	G5	S2	--	T	Unlikely	Sandy beaches; tidal flats
<i>Troglodytes troglodytes</i>	Winter Wren	LSR	Bird	G5	S4	--	SSC	Unlikely	Coniferous forests; brushy areas
<i>Mycteria americana</i>	Wood Stork	CC	Bird	G4	S2	LE	E	Unlikely	Cypress/gum ponds; marshes; river swamps; bays
<i>Nyctanassa violacea</i>	Yellow-crowned Night-heron	CC	Bird	G5	S3S4	--	SSC	Unlikely	River swamps; marshes; cypress/gum ponds
<i>Acipenser oxyrinchus oxyrinchus</i>	Atlantic Sturgeon	CC & LSR	Fish	G3T3	S3	--	SSC	Possibly	Large rivers and estuaries on Atlantic Coast
<i>Elassoma okatie</i>	Bluebarred Pygmy Sunfish	CC & LSR	Fish	G2G3	S1S2	--	E	Unlikely	Temporary ponds and stream backwaters with dense aquatic vegetation
<i>Moxostoma sp. 4</i>	Brassy Jumprock	LSR	Fish	G4	S3S4	--	SSC	Unlikely	Medium to large streams with rocky substrate
<i>Umbra pygmaea</i>	Eastern Mudminnow	CC	Fish	G5	S2S3	--	SSC	Unlikely	Sluggish streams, ponds, and sloughs with mud bottoms and heavy vegetation
<i>Notropis chalybaeus</i>	Ironcolor Shiner	LSR	Fish	G4	S2S3	--	SSC	Unlikely	Coastal Plain streams and floodplain swamps
<i>Moxostoma robustum</i>	Robust Redhorse	CC	Fish	G1	S1	--	E	Unlikely	Medium to large rivers, shallow riffles to deep flowing water; moderately swift current
<i>Etheostoma fricksium</i>	Savannah Darter	LSR	Fish	G4	S2	--	SSC	Unlikely	Shallow creeks with moderate current over sand or gravel substrate; sometimes associated with aquatic vegetation
<i>Etheostoma serrifer</i>	Sawcheek Darter	LSR	Fish	G5	S2	--	SSC	Unlikely	Sluggish streams and swamps over substrate of sand, mud, or detritus
<i>Acipenser brevirostrum</i>	Shortnose Sturgeon	CC & LSR	Fish	G3	S2	LE	E	Possibly	Estuaries; lower end of large rivers in deep pools with soft substrates

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Colonial Terminals, Plant #2
Savannah, Georgia

Scientific Name	Common Name	Area	Group	Global Rank	State Rank	Federal Status	State Status	Found Near Site?	Habitat in Georgia
<i>Chologaster cornuta</i>	Swampfish	LSR	Fish	G5	S2S3	--	SSC	Unlikely	Blackwater streams and swamps; often in woody debris, detritus, or vegetation
<i>Cordulegaster sayi</i>	Say's Spiketail	LSR	Insect	G2	S1S2	--	T	Unlikely	Silty-mucky seepage areas; pools of first order springfed streams
<i>Toxolasma pullus</i>	Savannah Lilliput	CC & LSR	Invertebrate	G2	S2	--	T	Unlikely	Large rivers to small creeks, oxbows, and sloughs
<i>Lampsilis cariosa</i>	Yellow Lampmussel	LSR	Invertebrate	G3G4	S2	--	SSC	Unlikely	Large to small rivers
<i>Pseudorca crassidens</i>	False Killer Whale	CC & LSR	Mammal	G4	SNRN	--	SSC	Unlikely	Open ocean
<i>Trichechus manatus</i>	Manatee	CC & LSR	Mammal	G2	S1S2	LE	E	Unlikely	Open ocean; estuaries; tidal rivers
<i>Eubalaena glacialis</i>	Northern Atlantic Right Whale	CC & LSR	Mammal	G1	S1	LE	E	Unlikely	Open ocean
<i>Lasiurus intermedius</i>	Northern Yellow Bat	CC & LSR	Mammal	G4G5	S2S3	--	SSC	Unlikely	Wooded areas near open water or fields
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat	LSR	Mammal	G3G4	S3?	--	R	Unlikely	Pine forests; hardwood forests; caves; abandoned buildings
<i>Geomys pinetis</i>	Southeastern Pocket Gopher	LSR	Mammal	G5	S2	--	T	Unlikely	Open areas with deep, sandy soils
<i>Malaclemys terrapin</i>	Diamondback Terrapin	CC	Reptile	G4	S3	--	U	Unlikely	Entire coast, estuarine and marine edge; All saltmarsh, beaches
<i>Crotalus adamanteus</i>	Eastern Diamond-backed Rattlesnake	CC & LSR	Reptile	G4	S4	--	SSC	Unlikely	Early successional habitats on barrier islands and mainland; pine flatwoods; sandhills
<i>Gopherus polyphemus</i>	Gopher Tortoise	CC & LSR	Reptile	G3	S2	C	T	Unlikely	Sandhills; dry hammocks; longleaf pine-turkey oak woods; old fields
<i>Chelonia mydas</i>	Green Sea Turtle	CC	Reptile	G3	S1	LT	T	Unlikely	Open ocean; sounds; coastal rivers; beaches
<i>Lepidochelys kempii</i>	Kemp's or Atlantic Ridley	CC	Reptile	G1	S1	LE	E	Unlikely	Open ocean; sounds; coastal rivers; beaches
<i>Dermochelys coriacea</i>	Leatherback Sea Turtle	CC	Reptile	G2	S1	LE	E	Unlikely	Open ocean; sounds; coastal beaches
<i>Caretta caretta</i>	Loggerhead Sea Turtle	CC & LSR	Reptile	G3	S2	LT	E	Unlikely	Open ocean; sounds; coastal rivers; beaches
<i>Pituophis melanoleucus melanoleucus</i>	Northern Pine Snake	LSR	Reptile	G4T4	S2	--	SSC	Unlikely	Dry pine or pine-hardwood forests
<i>Ophisaurus attenuatus attenuatus</i>	Slender Glass Lizard	LSR	Reptile	G5T5	S3	--	SSC	Unlikely	Open woods; savannas; old fields; sandhills
<i>Heterodon simus</i>	Southern Hognose Snake	LSR	Reptile	G2	S2	--	T	Unlikely	Sandhills; fallow fields; longleaf pine-turkey oak
<i>Clemmys guttata</i>	Spotted Turtle	CC & LSR	Reptile	G5	S3	--	U	Unlikely	Heavily vegetated swamps, marshes, bogs, and small ponds; nest and possibly hibernate in surrounding uplands
<i>Acacia farnesiana</i>	Sweet Acacia	CC & LSR	Plant	G5	S1	--	SSC	Unlikely	Sandy flats behind dunes; open live oak woods
<i>Amorpha georgiana var. georgiana</i>	Georgia Indigo-bush	CC	Plant	G3T2	S1	--	SSC	Unlikely	Wet to mesic forests; Flint kaolin outcrops; longleaf pine wiregrass or mixed oak woods
<i>Astragalus michauxii</i>	Sandhill Milk-vetch	LSR	Plant	G3	S2	--	T	Unlikely	Longleaf pine-wiregrass savannas; turkey oak scrub
<i>Carex calcifugens</i>	Lime-fleeing Sedge	LSR	Plant	G2G4	S2?	--	SSC	Unlikely	Rich bluff forests; evergreen maritime forests
<i>Forestiera segregata</i>	Florida Wild Privet	CC & LSR	Plant	G4	S2	--	R	Unlikely	Shell mounds on barrier islands in scrub or maritime forests
<i>Hibiscus grandiflorus</i>	Swamp Hibiscus	CC	Plant	G4?	S2	--	SSC	Unlikely	Tidal marshes, coastal flatwoods; wet savannas
<i>Illicium parviflorum</i>	Yellow Anise-tree	CC	Plant	G2	SH	--	SSC	Unlikely	Evergreen hammocks, bayheads
<i>Lachnocaulon beyrichianum</i>	Southern Bog-button	LSR	Plant	G4	S1?	--	SSC	Unlikely	Flatwoods
<i>Lindera melissifolia</i>	Pond Spicebush	CC & LSR	Plant	G2G3	S2	LE	E	Unlikely	Pond margins and wet savannas
<i>Listera australis</i>	Southern Twayblade	CC & LSR	Plant	G4	S2	--	SSC	Unlikely	Poorly drained circumneutral soils
<i>Litsea aestivalis</i>	Pond Spice	CC & LSR	Plant	G3	S2	--	R	Unlikely	Cypress ponds; swamp margins

**Table D-1: Protected Species Information
Colonial Terminals, Plant #2
Savannah, Georgia**

Scientific Name	Common Name	Area	Group	Global Rank	State Rank	Federal Status	State Status	Found Near Site?	Habitat in Georgia
<i>Magnolia pyramidata</i>	Pyramid Magnolia	LSR	Plant	G4	S3	--	SSC	Unlikely	Bluff and ravine forests
<i>Peltandra sagittifolia</i>	Arrow Arum	LSR	Plant	G3G4	S2?	--	SSC	Unlikely	Swamps; wet hammocks on pristine sphagnum mats
<i>Physostegia leptophylla</i>	Narrowleaf Obedient Plant	CC & LSR	Plant	G4?	S2S3	--	SSC	Unlikely	Freshwater tidal marshes; disjunct in wet savannas of extreme SW Georgia
<i>Rhynchospora punctata</i>	Pineland Beaksedge	CC	Plant	G1?	S1?	--	SSC	Unlikely	Wet savannas, pitcherplant bogs
<i>Sageretia minutiflora</i>	Climbing Buckthorn	CC	Plant	G4	S2	--	T	Unlikely	Calcareous bluff forests; maritime forests over shell mounds
<i>Sapindus marginatus</i>	Soapberry	CC	Plant	G5	S1S2	--	R	Unlikely	Shell mound forests
<i>Sarracenia flava</i>	Yellow Flytrap	LSR	Plant	G5?	S3S4	--	U	Unlikely	Wet savannas, pitcherplant bogs
<i>Sarracenia minor var. minor</i>	Hooded Pitcherplant	CC & LSR	Plant	G4T4	S4	--	U	Unlikely	Wet savannas, pitcherplant bogs
<i>Scutellaria mellichampii</i>	Mellichamp's Skullcap	CC	Plant	G3G4	S2?	--	SSC	Unlikely	Sandy deciduous woods
<i>Silene caroliniana</i>	Carolina Pink	LSR	Plant	G5	S2?	--	SSC	Unlikely	Granite outcrops and sandhills near the Ogeechee and Savannah Rivers
<i>Sporobolus pinetorum</i>	Pineland Dropseed	CC	Plant	G3	S2?	--	SSC	Unlikely	Wet savannas with wiregrass
<i>Stewartia malacodendron</i>	Silky Camellia	LSR	Plant	G4	S2	--	R	Unlikely	Along streams on lower slopes of beech-magnolia or beech-basswood-Florida maple forests
<i>Vaccinium crassifolium</i>	Evergreen Lowbush Blueberry	LSR	Plant	G4G5	SH	--	SSC	Unlikely	Open margins of Carolina bays
<i>Vigna luteola</i>	Wild Yellow Cowpea	CC	Plant	G5	S2?	--	SSC	Unlikely	Open swamps; maritime beaches and tidal flats

Notes

- Not listed by the US Fish and Wildlife Service.
- ? Inexact Numeric Rank. Denotes inexact numeric rank.
- Area Where the organism is listed.
- CC Organism listed in Georgia in Chatham County.
- E State listed as endangered. A species which is in danger of extinction throughout all or part of its range.
- G Global rank.
- G1 or S1 Critically Imperiled. At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.
- G2 or S2 Imperiled. At high risk of extinction or elimination due to very restricted range, very few populations, steep declines, or other factors.
- G3 or S3 Vulnerable. At moderate risk of extinction or elimination due to a restricted range, relatively few populations, recent and widespread declines, or other factors.
- G4 or S4 Apparently Secure. Uncommon but not rare; some cause for long-term concern due to declines or other factors.
- G5 or S5 Secure. Common; widespread and abundant.
- GH or SH Possibly Extinct. Known from only historical occurrences but still some hope of rediscovery. There is evidence that the species may be extinct, but not enough to state this with certainty.
- GX or SX Presumed extinct. Not located despite intensive searches and virtually no likelihood of rediscovery.
- LE Federally listed as endangered. A species which is in danger of extinction throughout all or part of its range.
- LSR Organism listed in Georgia in the Lower Savannah River.
- LT Federally listed as threatened. A species which is likely to become an endangered species in the foreseeable future throughout all or parts of its range.
- Q Questionable taxonomy that may reduce conservation priority. Distinctiveness of this entity as a taxon at the current level is questionable.
- R State listed as rare. A species which may not be endangered or threatened but which should be protected because of its scarcity.
- S State rank.
- SNRN Species not ranked, nonbreeding.
- SoC Federally listed candidate species. A species under consideration for official listing for which there is sufficient information to support listing.
- SSC Species of special concern. A species listed as a Georgia species of special concern that is not otherwise categorized.
- T State listed as threatened. A species which is likely to become an endangered species in the foreseeable future throughout all or parts of its range.
- T# Intraspecific Taxon (trinomial). The status of intraspecific taxa (subspecies or varieties) are indicated by a "T-rank" following the species' global rank.
- U State listed as unusual, and thus deserving of special consideration. Plants subject to commercial exploitation would have this status.

**Table D-2: Surface Water Data Summary
Colonial Terminals, Plant #2
Savannah, Georgia**

ID	Date	PCE µg/L	TCE µg/L	c12DCE µg/L	t12DCE µg/L	11DCE µg/L	Methylene Chloride µg/L	Vinyl Chloride µg/L	Arsenic µg/L	Chromium µg/L	Lead µg/L
SW-1	4/25/2007	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	NA	NA	NA
	8/16/2007	6.4	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	NA	NA	NA
	10/24/2007	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	NA	NA	NA
	9/17/2010	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0
SW-2	4/25/2007	< 1.0	< 1.0	1.2	< 1.0	< 1.0	< 5.0	< 1.0	NA	NA	NA
	8/16/2007	8.5	1.4	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	NA	NA	NA
	10/24/2007	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	NA	NA	NA
	9/17/2010	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0
SW-3	4/25/2007	< 1.0	< 1.0	1.2	< 1.0	< 1.0	< 5.0	< 1.0	NA	NA	NA
	8/16/2007	2.0	< 1.0	1.2	< 1.0	< 1.0	< 5.0	< 1.0	NA	NA	NA
	10/24/2007	< 1.0	< 1.0	1.2	< 1.0	< 1.0	< 5.0	< 1.0	NA	NA	NA
	9/17/2010	< 1.0	< 1.0	1.2	< 1.0	< 1.0	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0
Maximum		8.5	1.4	1.2	--	--	--	--	--	--	--

Notes

-- = not detected

< = less than the laboratory reporting limit indicated for VOCs

< = less than the method detection limit for metals

11DCE = 1,1-dichloroethylene

c12DCE = cis-1,2-dichloroethylene

NA = not analyzed

PCE = tetrachloroethene

t12DCE = trans-1,2-dichloroethylene

TCE = trichloroethene

µg/L = micrograms per liter

**Table D-3: Model-Predicted Surface Water Concentrations
Colonial Terminals, Plant #2
Savannah, Georgia**

Concentration	PCE µg/L	TCE µg/L	c12DCE µg/L	11DCE µg/L	Vinyl Chloride µg/L	Arsenic µg/L	Lead µg/L
Modeled river concentration based on 7Q10 flow rate	0.00333361	0.00064401	0.00049102	0.00021523	0.00002208	0.00001343	0.00006762
Detection Limit	1.0	1.0	1.0	1.0	1.0	2.0	1.0

Notes

11DCE = 1,1-dichloroethylene

7Q10 = Lowest 7-day average flow that occurs (on average) once every 10 years

c12DCE = cis-1,2-dichloroethylene

PCE = tetrachloroethene

TCE = trichloroethene

µg/L = micrograms per liter

**Table D-4: Surface Water Criteria
Colonial Terminals, Plant #2
Savannah, Georgia**

Constituent	Georgia In-Stream Water Quality Criteria µg/L		USEPA Region 4 Criterion µg/L		Most Stringent Appropriate Criterion (b) µg/L	
	FW	SW	FW	SW		
PCE	3.3 (a)	NC	84	45	45	R4 SW
TCE	30 (a)	NC	NC	NC	45	(c)
c12DCE	10,000 (a, d)	NC	1,350 (e)	NC	1,350	R4 FW
11DCE	7,100 (a)	NC	303	2,240	303	R4 FW
Vinyl Chloride	2.4	NC	NC	NC	45	(c)
Arsenic	150	36	190	36	36	GA SW
Lead	1.2	8.1	1.32	8.5	1.2	GA FW

Notes

(a) = Georgia In-Stream Water Quality Criteria for the volatile organic constituents on this table are not based on ecological endpoints and are not appropriate for ecological risk assessment.

(b) = Freshwater and saltwater criteria are considered because the site is in a tidally-influenced area

(c) = Value for PCE used as a surrogate

(d) = Value for 1,2-Trans-Dichloroethylene used as a surrogate

(e) = Value for 1,2-Trans-Dichloroethylene used as a surrogate

11DCE = 1,1-dichloroethylene

c12DCE = cis-1,2-dichloroethylene

FW = Freshwater

GA = Georgia

NC = no criterion

PCE = tetrachloroethene

R4 = USEPA Region 4

SW = Saltwater

TCE = trichloroethene

ug/L = micrograms per liter

**Table D-5: Surface Water Hazard Quotients
Colonial Terminals, Plant #2
Savannah, Georgia**

Constituent	Source	Concentration µg/L	Criterion µg/L	Hazard Quotient Unitless
PCE	SW Data max	8.5	45 GA FW	0.2
	GW/SW Model	0.00333361		0.00007
TCE	SW Data max	1.4	45 (a)	0.03
	Model	0.00064401		0.00001
c12DCE	SW Data max	1.2	1,350 R4 FW	0.0009
	Model	0.00049102		0.000004
11DCE	Model	0.00021523	303 R4 FW	0.000007
Vinyl Chloride	Model	0.00002208	45 (a)	0.000005
Arsenic	Model	0.00001343	36 GA SW	0.000004
Lead	Model	0.00006762	1.2 GA FW	0.00006

Notes

(a) = Value for PCE used as a surrogate

11DCE = 1,1-dichloroethylene

7Q10 = Lowest 7-day average flow that occurs (on average) once every 10 years

c12DCE = cis-1,2-dichloroethylene

FW = Freshwater

GA = Georgia

GW/SW Model = Groundwater river dilution model output under 7Q10 conditions

PCE = tetrachloroethene

R4 = USEPA Region 4

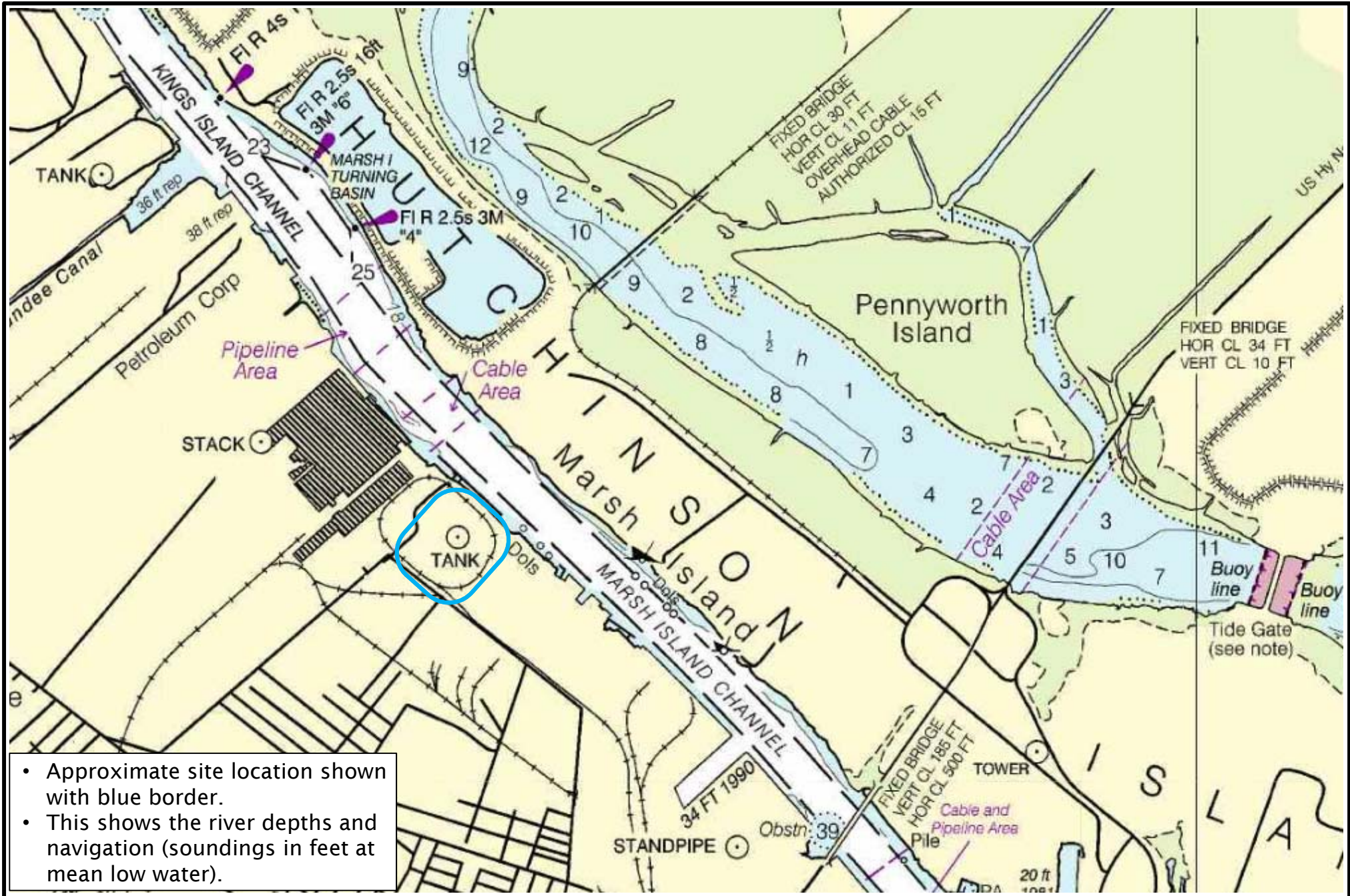
SW = Saltwater

TCE = trichloroethene

ug/L = micrograms per liter

Appendix D Figures





- Approximate site location shown with blue border.
- This shows the river depths and navigation (soundings in feet at mean low water).

SAVANNAH RIVER CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2012								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH MLLW (FEET)
TYBEE RANGE	43.5	44.5	46.0	42.0	7-12	600	3.79	44
BLOODY POINT RANGE	41.5	44.0	44.5	42.5	7-12	600	3.41	44
JONES ISLAND RANGE	42.5	43.5	45.0	43.0	7-12	600	1.33	44
TYBEE KNOLL CUT RANGE	43.0	44.5	44.0	43.5	7-12	500	2.84	42
NEW CHANNEL RANGE (A)	37.5	41.0	44.0	40.0	7-12	500	1.89	42
L. I. CROSSING RANGE	39.5	41.0	42.0	41.0	7-12	500	3.03	42
LOWER FLATS RANGE	40.0	44.0	44.5	42.5	7-12	500	1.52	42
UPPER FLATS RANGE	43.5	44.5	46.0	42.5	7-12	500	1.33	42
THE BIGHT CHANNEL	44.5	45.5	47.5	48.0	7-12	500	1.7	42
FT. JACKSON RANGE	43.5	46.0	46.0	45.5	7-12	500	0.76	42
OGLETHORPE RANGE	44.5	45.0	45.5	46.0	7-12	500	1.33	42
WRECKS CHANNEL (B)	42.0	45.5	47.0	46.0	7-12	500	1.7	42
CITY FRONT CHANNEL	41.0	45.0	44.5G	39.0	7-12	500	1.7	42
MARSH ISLAND CHANNEL (C)	40.0H	41.0	43.0	42.0	7-12	500	1.9	42
KINGS ISLAND CHANNEL (D)	39.5	40.0	42.0	37.5I	7-12	500	2.46	42
WHITEHALL CHANNEL (E)	29.5	30.0	31.0	30.0	7-12	400	0.66	42-36
PORT WENTWORTH CHANNEL (F)	30.0J	27.0	25.0	32.0	12-94; 7-12	200	1.33	30



U.S. Fish and Wildlife Service

National Wetlands Inventory

Colonial Terminal

Sep 19, 2012



Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

Riparian

- Herbaceous
- Forested/Shrub

- Approximate site location shown with blue border.



Appendix D, Attachment 1
Protected Species Information



U.S. Fish and Wildlife Service

Natural Resources of Concern

This resource list is to be used for planning purposes only — it is not an official species list.

Endangered Species Act species list information for your project is available online and listed below for the following FWS Field Offices:

SOUTH CAROLINA ECOLOGICAL SERVICES

176 CROGHAN SPUR ROAD, SUITE 200
CHARLESTON, SC 29407
(843) 727-4707
<http://www.fws.gov/charleston/>

GEORGIA ECOLOGICAL SERVICES FIELD OFFICE

105 WESTPARK DRIVE
WESTPARK CENTER SUITE D
ATHENS, GA 30606
(706) 613-9493

Project Name:

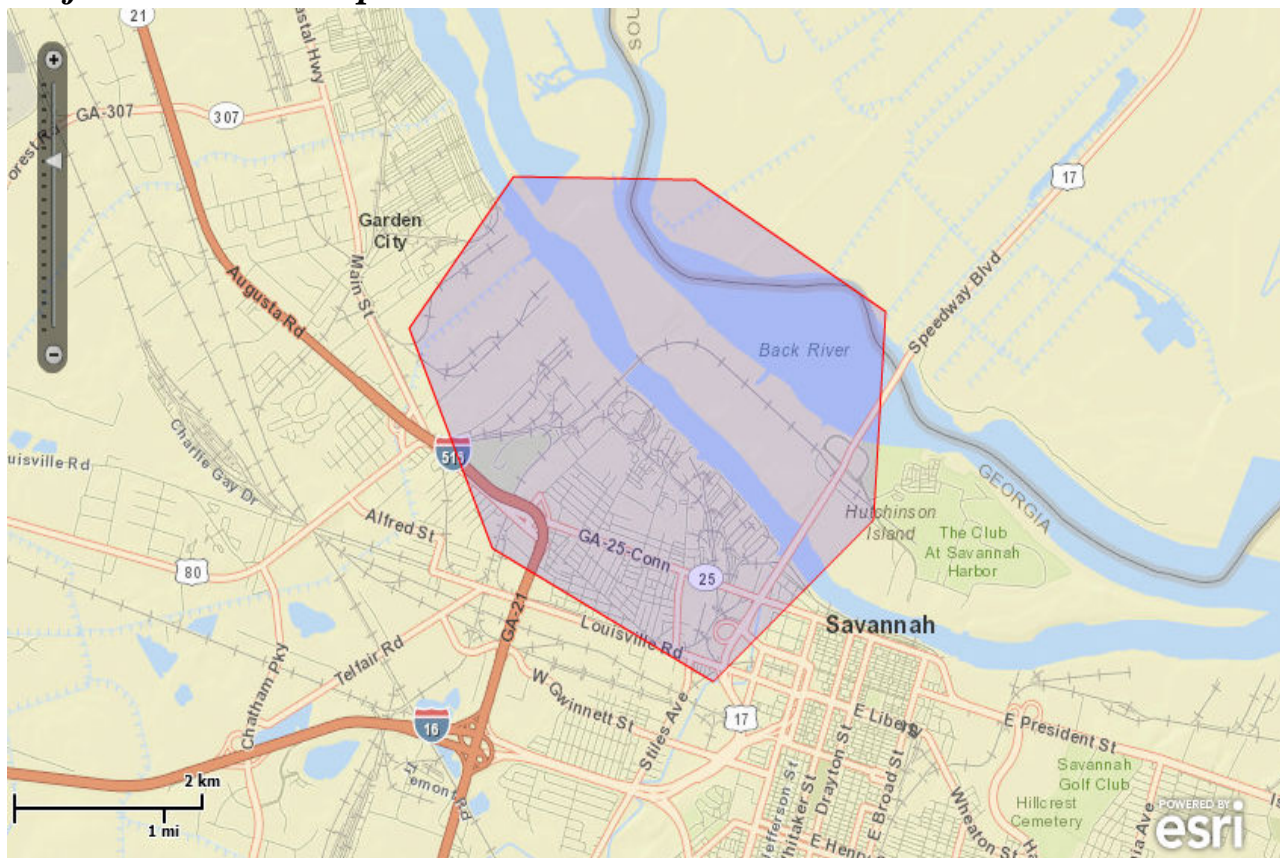
Colonial Terminal



U.S. Fish and Wildlife Service

Natural Resources of Concern

Project Location Map:



Project Location Measurements:

Area : 1206.0 ac.

Length : 5.4 mi.

Project Counties:

Chatham, GA | Jasper, SC

Geographic coordinates (Open Geospatial Consortium Well-Known Text, NAD83):

MULTIPOLYGON (((-81.1101923 32.1204932, -81.0885716 32.1089998, -81.0899449 32.0908225, -81.108141 32.0767144, -81.1332035 32.0883501, -81.1426449 32.1075457, -81.1307917 32.120784, -81.1101923 32.1204932)))



Natural Resources of Concern

Project Type:

** Other **

Endangered Species Act Species List

There are a total of 14 species in your species list

Species that may be affected by your project:

Amphibians			
frosted flatwoods salamander (<i>Ambystoma cingulatum</i>)	Threatened	species info	South Carolina Ecological Services, Georgia Ecological Services Field Office
Birds			
Kirtland's Warbler (<i>Dendroica kirtlandii</i>)	Endangered	species info	South Carolina Ecological Services
Piping Plover (<i>Charadrius melodus</i>) Population: except Great Lakes watershed	Threatened	species info	South Carolina Ecological Services
Red-Cockaded woodpecker (<i>Picoides borealis</i>)	Endangered	species info	South Carolina Ecological Services, Georgia Ecological Services Field Office
Wood stork (<i>Mycteria americana</i>) Population: AL, FL, GA, SC	Endangered	species info	South Carolina Ecological Services, Georgia Ecological Services Field Office
Fishes			
Shortnose sturgeon (<i>Acipenser brevirostrum</i>)	Endangered	species info	South Carolina Ecological Services, Georgia Ecological Services Field Office
Flowering Plants			



Natural Resources of Concern

American chaffseed (<i>Schwalbea americana</i>)	Endangered	species info	South Carolina Ecological Services
Canby's dropwort (<i>Oxypolis canbyi</i>)	Endangered	species info	South Carolina Ecological Services
pondberry (<i>Lindera melissifolia</i>)	Endangered	species info	South Carolina Ecological Services
Mammals			
North Atlantic right Whale (<i>Eubalaena glacialis</i>)	Endangered	species info	Georgia Ecological Services Field Office
West Indian manatee (<i>Trichechus manatus</i>)	Endangered	species info	South Carolina Ecological Services, Georgia Ecological Services Field Office
Reptiles			
Green sea turtle (<i>Chelonia mydas</i>) Population: except where endangered	Threatened	species info	South Carolina Ecological Services, Georgia Ecological Services Field Office
Kemp's Ridley sea turtle (<i>Lepidochelys kempii</i>)	Endangered	species info	South Carolina Ecological Services
Leatherback sea turtle (<i>Dermochelys coriacea</i>)	Endangered	species info	South Carolina Ecological Services, Georgia Ecological Services Field Office

FWS National Wildlife Refuges

There are 1 refuges in your refuge list

<p>Savannah-pinckney National Wildlife Refuges (843) 784-6751 C/O SAVANNAH COASTAL OFFICE-WASSAW AND TYBEE NATIONAL WILDLIFE REFUGES</p> <p>1000 BUSINESS CENTER DRIVE, SUITE 10 SAVANNAH, GA31405</p>	refuge profile
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U.S. Fish and Wildlife Service

Natural Resources of Concern

FWS Migratory Birds

Not yet available through IPaC.

FWS Delineated Wetlands

Not yet available through IPaC.





WILDLIFE RESOURCES DIVISION

Known occurrences of special concern plants, animals and natural communities Chatham County — Fips Code: 13051

Find details for these species at [Georgia Rare Species and Natural Community Data](#) and [NatureServe Explorer](#).

[US] indicates species with federal status (Protected or Candidate).
Species that are federally protected in Georgia are also state protected.
[GA] indicates Georgia protected species.

 link to species profile on our site (not available for all species).
 link to report for element on NatureServe Explorer (only available for animals and plants).

Animal Occurrences

- *Acipenser brevirostrum* (Shortnose Sturgeon) **[US]** - fish
- *Acipenser oxyrinchus oxyrinchus* (Atlantic Sturgeon) - fish
- *Ambystoma cingulatum* (Frosted Flatwoods Salamander) **[US]** - amphibian
- *Ammodramus maritimus* (Seaside Sparrow) - bird
- *Caretta caretta* (Loggerhead Sea Turtle) **[US]** - reptile
- *Charadrius melodus* (Piping Plover) **[US]** - bird
- *Charadrius wilsonia* (Wilson's Plover) **[GA]** - bird
- *Chelonia mydas* (Green Sea Turtle) **[US]** - reptile
- *Clemmys guttata* (Spotted Turtle) **[GA]** - reptile
- *Crotalus adamanteus* (Eastern Diamond-backed Rattlesnake) - reptile
- *Dermochelys coriacea* (Leatherback Sea Turtle) **[US]** - reptile
- *Elanoides forficatus* (Swallow-tailed Kite) **[GA]** - bird
- *Elassoma okatie* (Bluebarred Pygmy Sunfish) **[GA]** - fish
- *Eubalaena glacialis* (Northern Atlantic Right Whale) **[US]** - mammal
- *Gopherus polyphemus* (Gopher Tortoise) **[US]** - reptile
- *Haematopus palliatus* (American Oystercatcher) **[GA]** - bird
- *Haliaeetus leucocephalus* (Bald Eagle) **[GA]** - bird
- *Himantopus mexicanus* (Black-necked Stilt) - bird
- *Lanius ludovicianus migrans* (Migrant Loggerhead Shrike) - bird
- *Lasiurus intermedius* (Northern Yellow Bat) - mammal
- *Lepidochelys kempii* (Kemp's or Atlantic Ridley) **[US]** - reptile
- *Malaclemys terrapin* (Diamondback Terrapin) **[GA]** - reptile
- *Moxostoma robustum* (Robust Redhorse) **[GA]** - fish
- *Mycteria americana* (Wood Stork) **[US]** - bird
- *Nyctanassa violacea* (Yellow-crowned Night-heron) - bird
- *Nycticorax nycticorax* (Black-crowned Night-heron) - bird
- *Passerina ciris* (Painted Bunting) - bird
- *Picoides borealis* (Red-cockaded Woodpecker) **[US]** - bird
- *Pseudacris brimleyi* (Brimley's Chorus Frog) - amphibian
- *Pseudorca crassidens* (False Killer Whale) - mammal
- *Rana capito* (Gopher Frog) **[GA]** - amphibian
- *Rynchops niger* (Black Skimmer) **[GA]** - bird
- *Stereochilus marginatus* (Many-lined Salamander) - amphibian
- *Sternula antillarum* (Least Tern) **[GA]** - bird
- *Toxolasma pullus* (Savannah Lilliput) **[GA]** - mollusk
- *Trichechus manatus* (Manatee) **[US]** - mammal
- *Tyto alba* (Barn owl) - bird
- *Umbra pygmaea* (Eastern Mudminnow) - fish







Community Occurrences

- *Acer rubrum* - *Nyssa biflora* - (*Liquidambar styraciflua*, *Fraxinus* sp.) Maritime Swamp Forest (Maritime Swamp Forest)
- *Baccharis halimifolia* - *Iva frutescens* - *Morella cerifera* - (*Ilex vomitoria*) Shrubland (Groundsel-tree - Maritime Marsh-elder - Wax-myrtle - (Yaupon) Shrubland)
- *Cakile edentula* ssp. *harperi* Sparse Vegetation (South Atlantic Upper Ocean Beach)
- *Cladium mariscus* ssp. *jamaicense* - *Woodwardia virginica* Herbaceous Vegetation (Sawgrass Head)
- *Fagus grandifolia* - *Magnolia grandiflora* / *Ilex opaca* - (*Persea borbonia*) / *Mitchella repens* Forest (Atlantic Coastal Plain Acidic Loam Beech - Magnolia Forest)
- *Gordonia lasianthus* - *Magnolia virginiana* - *Persea palustris* / *Sphagnum* spp. Forest (Loblolly-bay Forest)
- *Juniperus virginiana* var. *silicicola* - (*Quercus virginiana*, *Sabal palmetto*) Forest (Cedar - Live Oak - Cabbage Palmetto Marsh Hammock)
- *Juniperus virginiana* var. *silicicola* - *Zanthoxylum clava-herculis* - *Quercus virginiana* - (*Sabal palmetto*) / *Sageretia minutiflora* - (*Sideroxylon tenax*) Woodland (Coastal Red-cedar - Toothache-tree - Live Oak - (Cabbage Palmetto) / Small-flower Mock Buckthorn - (Tough Bumelia) Woodland)
- *Liquidambar styraciflua* - *Acer rubrum* - (*Nyssa biflora*) / *Woodwardia virginica* Forest (No common name available)
- *Morella cerifera* / *Spartina patens* - (*Juncus roemerianus*) Shrubland (Atlantic Coast Interdune Swale)
- *Muhlenbergia filipes* - *Spartina patens* - *Eustachys petraea* Herbaceous Vegetation (No common name available)
- *Nyssa biflora* - (*Nyssa aquatica*, *Taxodium distichum*) Tidal Forest (Tidal Hardwood Swamp Forest)
- *Nyssa biflora* - *Acer rubrum* var. *rubrum* / *Lyonia lucida* Forest (Sandhills Swamp Blackgum Floodplain Forest)
- *Nyssa biflora* - *Acer rubrum* var. *trilobum* - *Liriodendron tulipifera* / *Ilex coriacea* - *Lyonia lucida* Forest (Sandhills Swamp Blackgum Hillside Seepage Forest)
- *Nyssa biflora* - *Quercus nigra* - *Quercus laurifolia* - *Pinus taeda* / *Ilex opaca* - *Carpinus caroliniana* Forest (Swamp Blackgum - Mixed Hardwood Small Stream Forest)
- *Panicum hemitomon* - *Pluchea* (*camphorata*, *rosea*) - *Ludwigia* spp. Herbaceous Vegetation (Outer Coastal Plain Maidencane Pond)
- *Pinus elliotii* var. *elliotii* / *Serenoa repens* - *Ilex glabra* Woodland (Slash Pine Flatwoods)
- *Pinus glabra* - *Quercus* (*laurifolia*, *michauxii*, *nigra*) / *Carpinus caroliniana* ssp. *caroliniana* / *Sabal minor* Forest (Coastal Plain Spruce Pine - Oak Stream Forest)
- *Pinus glabra* - *Quercus virginiana* - *Carya glabra* / *Carpinus caroliniana* / *Serenoa repens* Forest (South Atlantic Swamp Island)
- *Pinus palustris* / *Quercus laevis* - *Quercus incana* - *Quercus margarettiae* / *Licania michauxii* / *Aristida beyrichiana* Woodland (No common name available)
- *Pinus palustris* / *Serenoa repens* - *Vaccinium myrsinites* / *Aristida beyrichiana* - *Sporobolus curtissii* Woodland (South Atlantic Coastal Plain Longleaf Flatwoods)
- *Pinus serotina* / *Gordonia lasianthus* - *Persea palustris* Saturated Woodland (Pond Pine - Bay Swamp)
- *Quercus falcata* - *Quercus stellata* - *Carya alba* / *Vaccinium* spp. Coastal Plain Forest (Dry Acid Eastern Coastal Plain Oak - Hickory Forest)
- *Quercus geminata* / *Vaccinium arboreum* Forest (Southeastern Coastal Plain Xeric Hammock)
- *Quercus hemisphaerica* - *Magnolia grandiflora* - *Carya* (*glabra*, *pallida*) / *Vaccinium arboreum* / *Chasmanthium sessiliflorum* Forest (Sand Laurel Oak - Mixed Hardwood Upland Forest)
- *Quercus laurifolia* - *Quercus lyrata* / *Carpinus caroliniana* - *Persea palustris* / *Vaccinium elliotii* Forest (Atlantic Coastal Plain Blackwater River Terrace and Ridge Forest)
- *Quercus laurifolia* / *Carpinus caroliniana* / *Justicia ovata* Forest (Diamondleaf Oak Bottomland Forest)
- *Quercus pagoda* - *Quercus michauxii* - *Quercus alba* / *Arundinaria gigantea* ssp. *tecta* - *Sabal minor* / *Chasmanthium laxum* Forest (No common name available)
- *Quercus virginiana* - (*Pinus elliotii* var. *elliotii*, *Sabal palmetto*) / *Persea borbonia* - *Callicarpa americana* Forest (Maritime Live Oak Hammock)
- *Quercus virginiana* - (*Pinus taeda*) / (*Sabal minor*, *Serenoa repens*) Forest (Outer Coastal Plain Live Oak Levee Forest)
- *Quercus virginiana* - *Quercus hemisphaerica* - *Pinus taeda* - *Quercus falcata* / *Ilex vomitoria* Forest (Atlantic Coastal Fringe Evergreen Forest)
- *Quercus virginiana* - *Quercus nigra* - *Quercus pagoda* - *Liquidambar styraciflua* / *Sabal minor* - *Ilex vomitoria* Forest (No common name available)
- *Quercus virginiana* - *Quercus pagoda* - *Magnolia grandiflora* - *Carya glabra* / *Ilex opaca* Forest (No common name available)
- *Sabal palmetto* - (*Juniperus virginiana* var. *silicicola*) Woodland (No common name available)
- *Sabal palmetto* / *Glyceria septentrionalis* - *Carex stipata* - *Woodwardia virginica* Woodland (Atlantic Coast Cabbage Palmetto Dune Swale)
- *Salix caroliniana* Temporarily Flooded Shrubland (Carolina Willow Shrubland)
- *Schoenoplectus americanus* - *Spartina patens* Herbaceous Vegetation (Transitional Tidal Marsh)
- *Spartina bakeri* - *Kosteletzkya virginica* Herbaceous Vegetation (No common name available)
- *Spartina bakeri* - *Woodwardia virginica* - *Saccharum giganteum* Herbaceous Vegetation (South Atlantic Coastal Pond)
- *Spartina cynosuroides* Herbaceous Vegetation (Atlantic Giant Cordgrass Marsh)
- *Taxodium distichum* - *Nyssa aquatica* - *Nyssa biflora* / *Fraxinus caroliniana* / *Itea virginica* Forest (Atlantic Coastal Plain Bald-cypress - Water Tupelo Blackwater Small Stream Swamp Forest)
- *Uniola paniculata* - *Hydrocotyle bonariensis* Herbaceous Vegetation (No common name available)

Other Occurrences

- *Wading Bird Colony* (Wading Bird Colony)

Plant Occurrences

- *Acacia farnesiana* (Sweet Acacia) 
- *Amorpha georgiana* var. *georgiana* (Georgia Indigo-bush) 
- *Forestiera segregata* (Florida Wild Privet) [GA]  
- *Hibiscus grandiflorus* (Swamp Hibiscus) 
- *Illicium parviflorum* (Yellow Anise-tree) 

- *Lindera melissifolia* (Pond Spicebush) [US]  
- *Physostegia leptophylla* (Narrowleaf Obedient Plant) 
- *Rhynchospora punctata* (Pineland Beaksedge)  
- *Sageretia minutiflora* (Climbing Buckthorn) [GA]  
- *Sapindus marginatus* (Soapberry) [GA]  
- *Sarracenia minor* var. *minor* (Hooded Pitcherplant) [GA] 
- *Scutellaria mellichampii* (Mellichamp's Skullcap) 
- *Sporobolus pinetorum* (Pineland Dropseed) 
- *Vigna luteola* (Wild Yellow Cowpea) 

Generated from Georgia DNR's NatureServe Biotics conservation database on October 12, 2011





WILDLIFE RESOURCES DIVISION

Known occurrences of special concern plants, animals and natural communities Savannah River, Lower Watershed — HUC8 Watershed Code: 03060109

Find details for these species at [Georgia Rare Species and Natural Community Data](#) and [NatureServe Explorer](#).

[US] indicates species with federal status (Protected or Candidate).
Species that are federally protected in Georgia are also state protected.
[GA] indicates Georgia protected species.

 link to species profile on our site (not available for all species).
 link to report for element on NatureServe Explorer (only available for animals and plants).

Animal Occurrences

- *Acipenser brevirostrum* (Shortnose Sturgeon) **[US]** - fish
- *Acipenser oxyrinchus oxyrinchus* (Atlantic Sturgeon) - fish
- *Ambystoma cingulatum* (Frosted Flatwoods Salamander) **[US]** - amphibian
- *Caretta caretta* (Loggerhead Sea Turtle) **[US]** - reptile
- *Chologaster cornuta* (Swampfish) - fish
- *Clemmys guttata* (Spotted Turtle) **[GA]** - reptile
- *Cordulegaster sayi* (Say's Spiketail) **[GA]** - insect
- *Corynorhinus rafinesquii* (Rafinesque's Big-eared Bat) **[GA]** - mammal
- *Crotalus adamanteus* (Eastern Diamond-backed Rattlesnake) - reptile
- *Elanoides forficatus* (Swallow-tailed Kite) **[GA]** - bird
- *Elassoma okatie* (Bluebarred Pygmy Sunfish) **[GA]** - fish
- *Etheostoma fricksium* (Savannah Darter) - fish
- *Etheostoma serrifer* (Sawcheek Darter) - fish
- *Eubalaena glacialis* (Northern Atlantic Right Whale) **[US]** - mammal
- *Geomys pinetis* (Southeastern Pocket Gopher) **[GA]** - mammal
- *Gopherus polyphemus* (Gopher Tortoise) **[US]** - reptile
- *Haliaeetus leucocephalus* (Bald Eagle) **[GA]** - bird
- *Heterodon simus* (Southern Hognose Snake) **[GA]** - reptile
- *Himantopus mexicanus* (Black-necked Stilt) - bird
- *Lampsilis cariosa* (Yellow Lampmussel) - mollusk
- *Lasiurus intermedius* (Northern Yellow Bat) - mammal
- *Moxostoma sp. 4* (Brassy Jumprock) - fish
- *Notropis chalybaeus* (Ironcolor Shiner) - fish
- *Nycticorax nycticorax* (Black-crowned Night-heron) - bird
- *Ophisaurus attenuatus attenuatus* (Slender Glass Lizard) - reptile
- *Passerina ciris* (Painted Bunting) - bird
- *Picoides borealis* (Red-cockaded Woodpecker) **[US]** - bird
- *Pituophis melanoleucus melanoleucus* (Northern Pine Snake) - reptile
- *Pseudacris brimleyi* (Brimley's Chorus Frog) - amphibian
- *Pseudobranchius striatus striatus* (Broad-striped Dwarf Siren) - amphibian
- *Pseudorca crassidens* (False Killer Whale) - mammal
- *Rana virgatipes* (Carpenter Frog) - amphibian
- *Rynchops niger* (Black Skimmer) **[GA]** - bird
- *Stereochilus marginatus* (Many-lined Salamander) - amphibian
- *Sternula antillarum* (Least Tern) **[GA]** - bird
- *Toxolasma pullus* (Savannah Lilliput) **[GA]** - mollusk
- *Trichechus manatus* (Manatee) **[US]** - mammal
- *Troglodytes troglodytes* (Winter Wren) - bird
- *Tyto alba* (Barn owl) - bird

Community Occurrences

- *Blackwater stream floodplain forest* (Blackwater Swamp)
- *Cp mesic broadleaf decid.-broadleaf ever. forest* (Coastal Plain Mesic Ravine Forest)
- *Juniperus virginiana var. silicicola - (Quercus virginiana, Sabal palmetto) Forest* (Cedar - Live Oak - Cabbage Palmetto Marsh Hammock)
- *Liquidambar styraciflua - Acer rubrum - (Nyssa biflora) / Woodwardia virginica Forest* (No common name available)
- *Nyssa biflora - (Nyssa aquatica, Taxodium distichum) Tidal Forest* (Tidal Hardwood Swamp Forest)
- *Nyssa biflora - Acer rubrum var. rubrum / Lyonia lucida Forest* (Sandhills Swamp Blackgum Floodplain Forest)
- *Nyssa biflora - Quercus nigra - Quercus laurifolia - Pinus taeda / Ilex opaca - Carpinus caroliniana Forest* (Swamp Blackgum - Mixed Hardwood Small Stream Forest)
- *Open water/aquatic bed veg., carolina bay* (Open-water Carolina Bay)
- *Pinus elliottii var. elliottii / Serenoa repens - Ilex glabra Woodland* (Slash Pine Flatwoods)
- *Quercus laurifolia / Carpinus caroliniana / Justicia ovata Forest* (Diamondleaf Oak Bottomland Forest)
- *Schoenoplectus americanus - Spartina patens Herbaceous Vegetation* (Transitional Tidal Marsh)
- *Spartina cynosuroides Herbaceous Vegetation* (Atlantic Giant Cordgrass Marsh)
- *Taxodium distichum - Nyssa aquatica - Nyssa biflora / Fraxinus caroliniana / Itea virginica Forest* (Atlantic Coastal Plain Bald-cypress - Water Tupelo Blackwater Small Stream Swamp Forest)

Other Occurrences

- *Wading Bird Colony* (Wading Bird Colony)

Plant Occurrences

- *Acacia farnesiana* (Sweet Acacia) 
- *Astragalus michauxii* (Sandhill Milk-vetch) [GA]  
- *Carex calcifugens* (Lime-fleeing Sedge) 
- *Forestiera segregata* (Florida Wild Privet) [GA]  
- *Lachnocaulon beyrichianum* (Southern Bog-button)  
- *Lindera melissifolia* (Pond Spicebush) [US]  
- *Listera australis* (Southern Twayblade) 
- *Litsea aestivalis* (Pond Spice) [GA]  
- *Magnolia pyramidata* (Pyramid Magnolia) 
- *Peltandra sagittifolia* (Arrow Arum) 
- *Physostegia leptophylla* (Narrowleaf Obedient Plant) 
- *Sarracenia flava* (Yellow Flytrap) [GA]  
- *Sarracenia minor var. minor* (Hooded Pitcherplant) [GA]  
- *Silene caroliniana* (Carolina Pink) 
- *Stewartia malacodendron* (Silky Camellia) [GA]  
- *Vaccinium crassifolium* (Evergreen Lowbush Blueberry) 

Generated from Georgia DNR's NatureServe Biotics conservation database on October 13, 2011

Appendix D, Attachment 2
Fishery Maps from the Savannah Harbor Expansion Project

ENVIRONMENTAL IMPACT STATEMENT

APPENDIX P: Fishery Habitat Maps

SAVANNAH HARBOR EXPANSION PROJECT

Chatham County, Georgia and Jasper County, South Carolina

January 2012

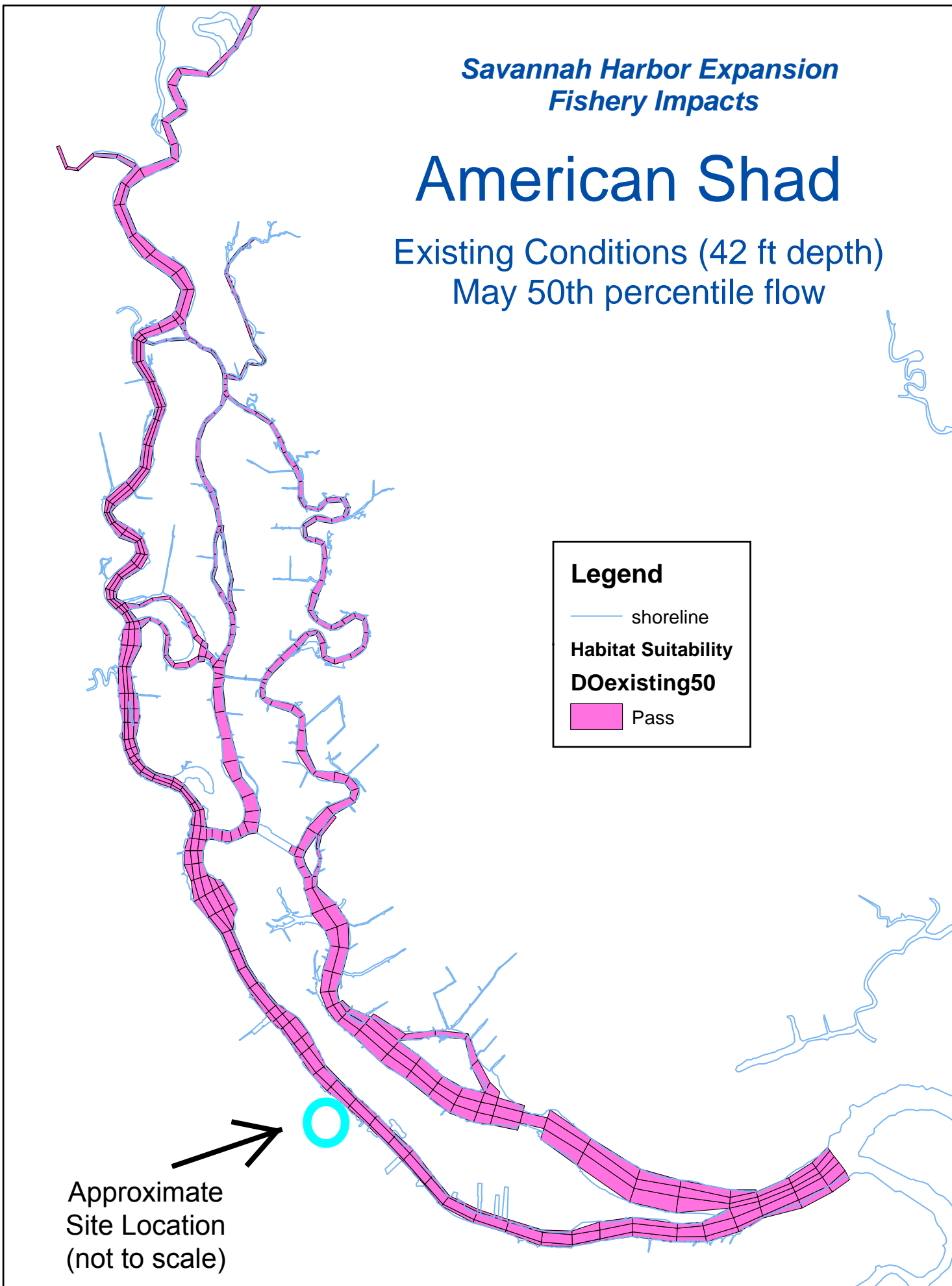


**US Army Corps
of Engineers**
*Savannah District
South Atlantic Division*

*Savannah Harbor Expansion
Fishery Impacts*

American Shad

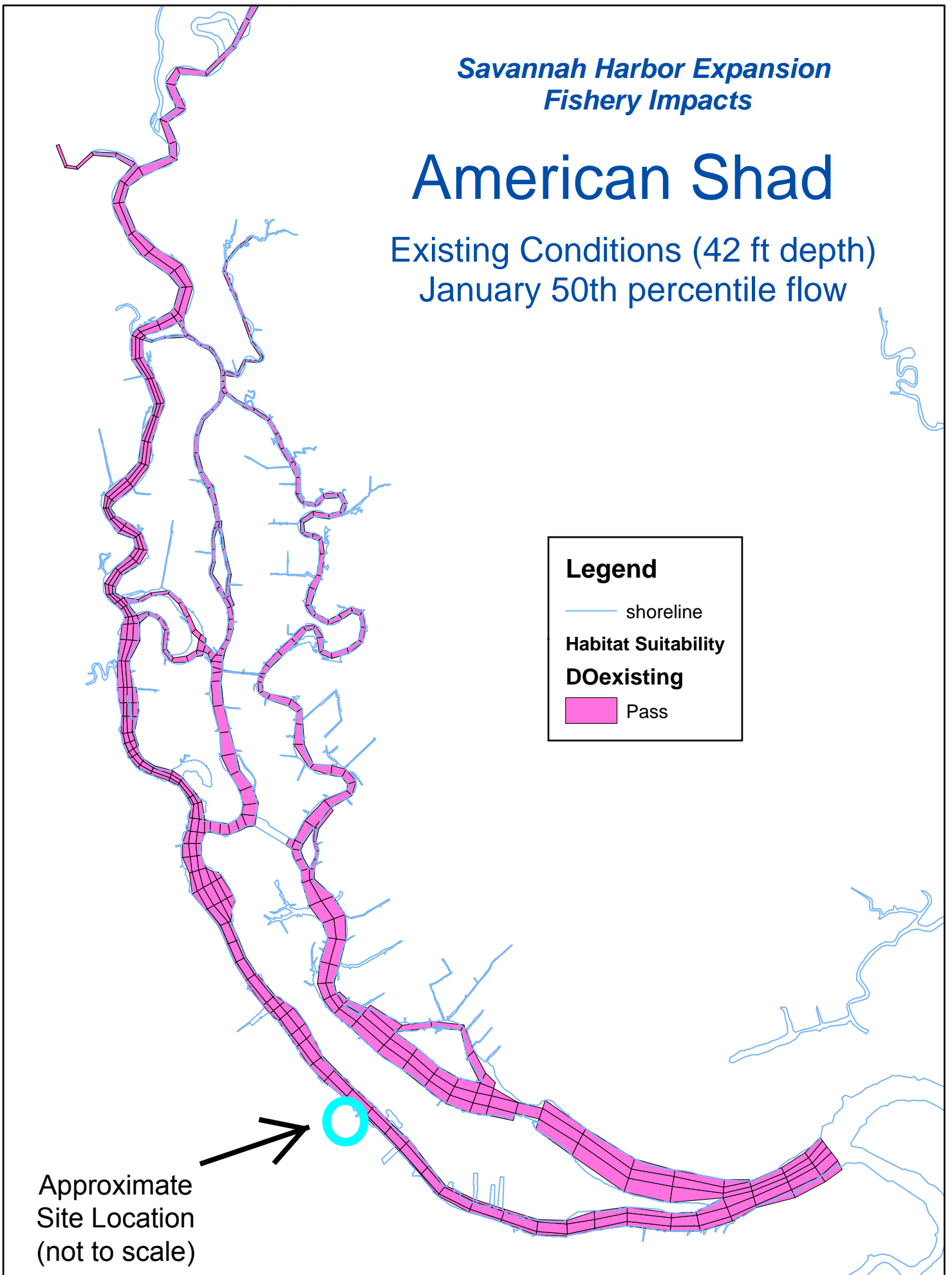
Existing Conditions (42 ft depth)
May 50th percentile flow



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

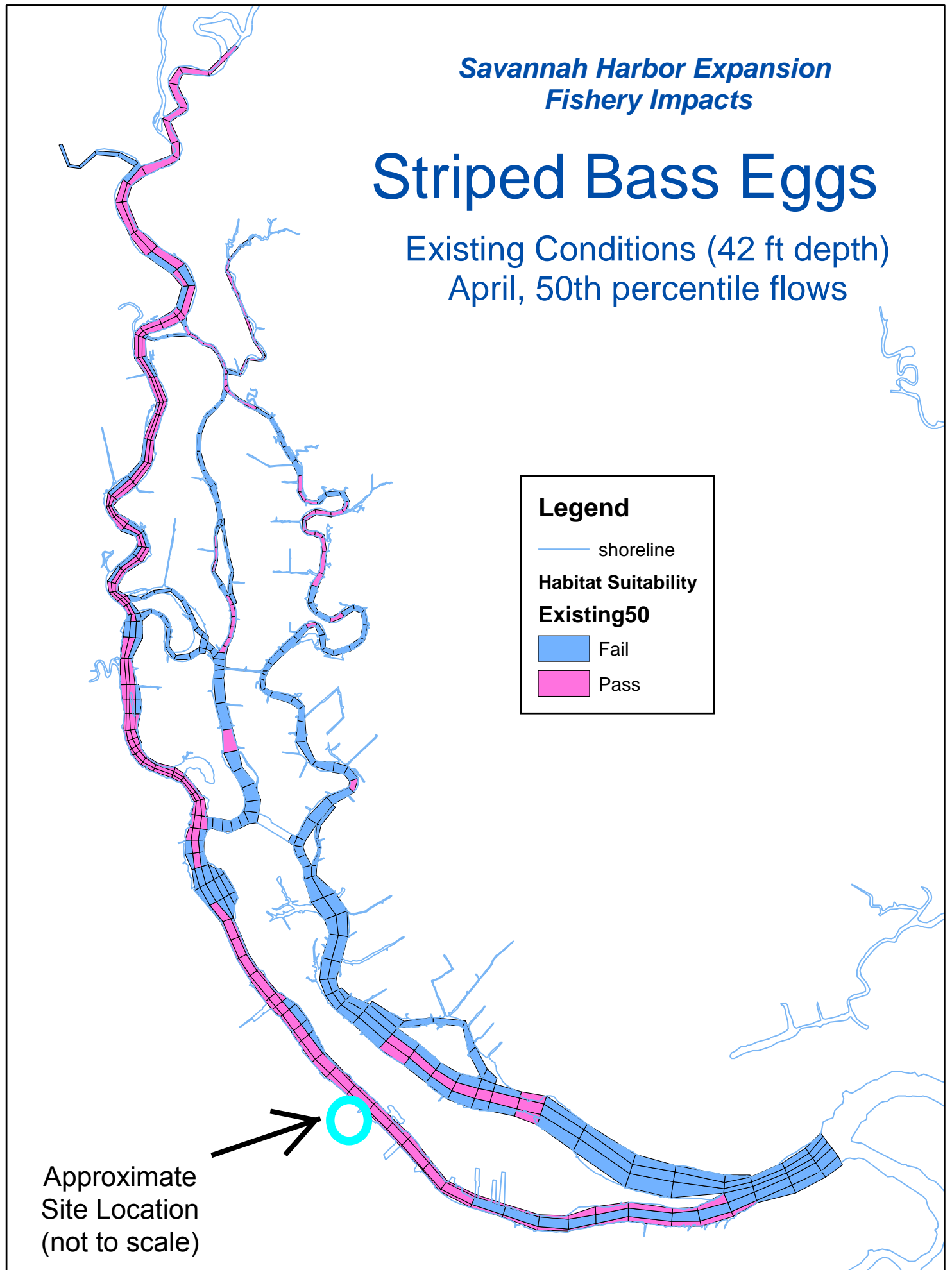
Existing Conditions (42 ft depth)
January 50th percentile flow



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Eggs

Existing Conditions (42 ft depth)
April, 50th percentile flows



Legend

- shoreline

Habitat Suitability

Existing50

- Fail
- Pass

Approximate
Site Location
(not to scale)

*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Larvae

Existing Conditions (42 ft depth)
May, 50th percentile flows

Legend

- shoreline
- Habitat Suitability**
- HabExmay50**
- FAIL
- PASS

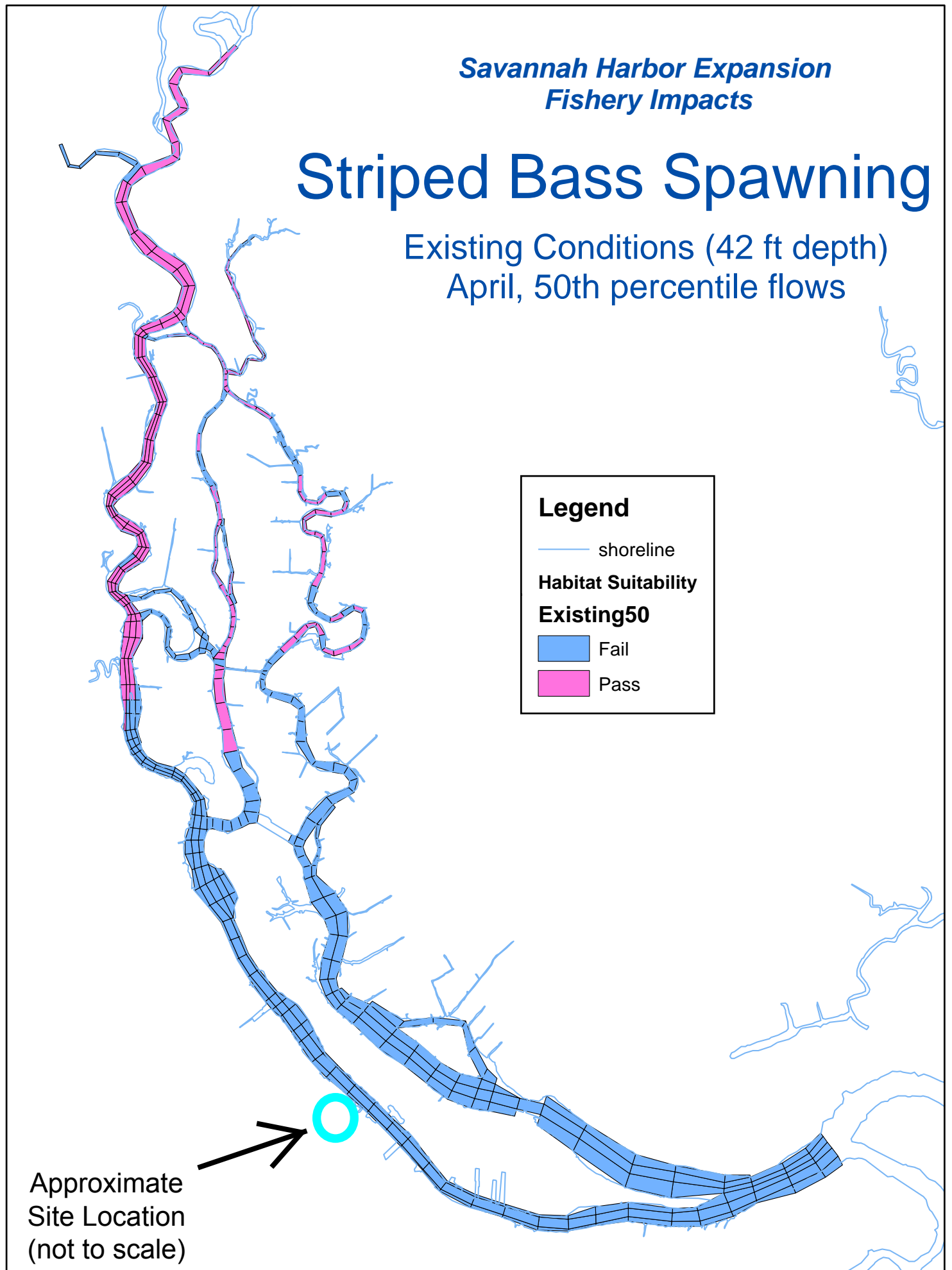
Approximate
Site Location
(not to scale)



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Spawning

Existing Conditions (42 ft depth)
April, 50th percentile flows



ENVIRONMENTAL IMPACT STATEMENT

APPENDIX P: Fishery Habitat Maps

SAVANNAH HARBOR EXPANSION PROJECT

Chatham County, Georgia and Jasper County, South Carolina

January 2012

ATTACHMENT 1

Revised Shortnose Sturgeon Habitat Maps
March 2011



**US Army Corps
of Engineers**
*Savannah District
South Atlantic Division*




**Savannah Harbor Expansion
Fishery Impacts**

**Habitat Suitability for
Juvenile Shortnose Sturgeon**

Existing Conditions ONLY
NO Deepening
NO Mitigation

Analysis period is January with
2004 point source discharges.

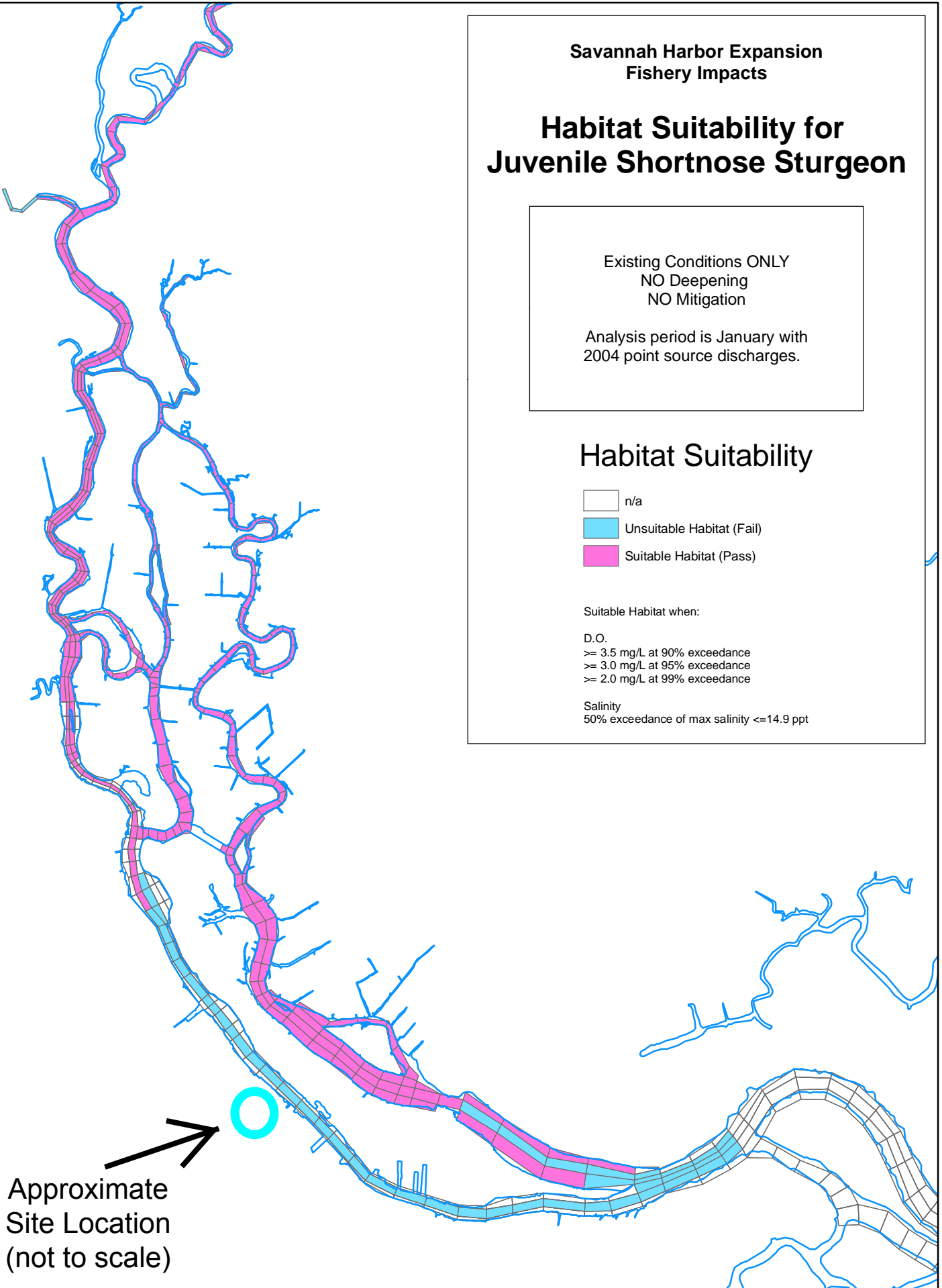
Habitat Suitability

-  n/a
-  Unsuitable Habitat (Fail)
-  Suitable Habitat (Pass)

Suitable Habitat when:

- D.O.
- ≥ 3.5 mg/L at 90% exceedance
- ≥ 3.0 mg/L at 95% exceedance
- ≥ 2.0 mg/L at 99% exceedance

Salinity
50% exceedance of max salinity ≤ 14.9 ppt



Approximate
Site Location
(not to scale)

Savannah Harbor Expansion Project

Shortnose Sturgeon Habitat Suitability

Existing Conditions

NO Deepening
NO Mitigation

Analysis period is August with
2004 Point Source Discharges

Habitat Suitability

Habitat Criteria:



D.O. August:

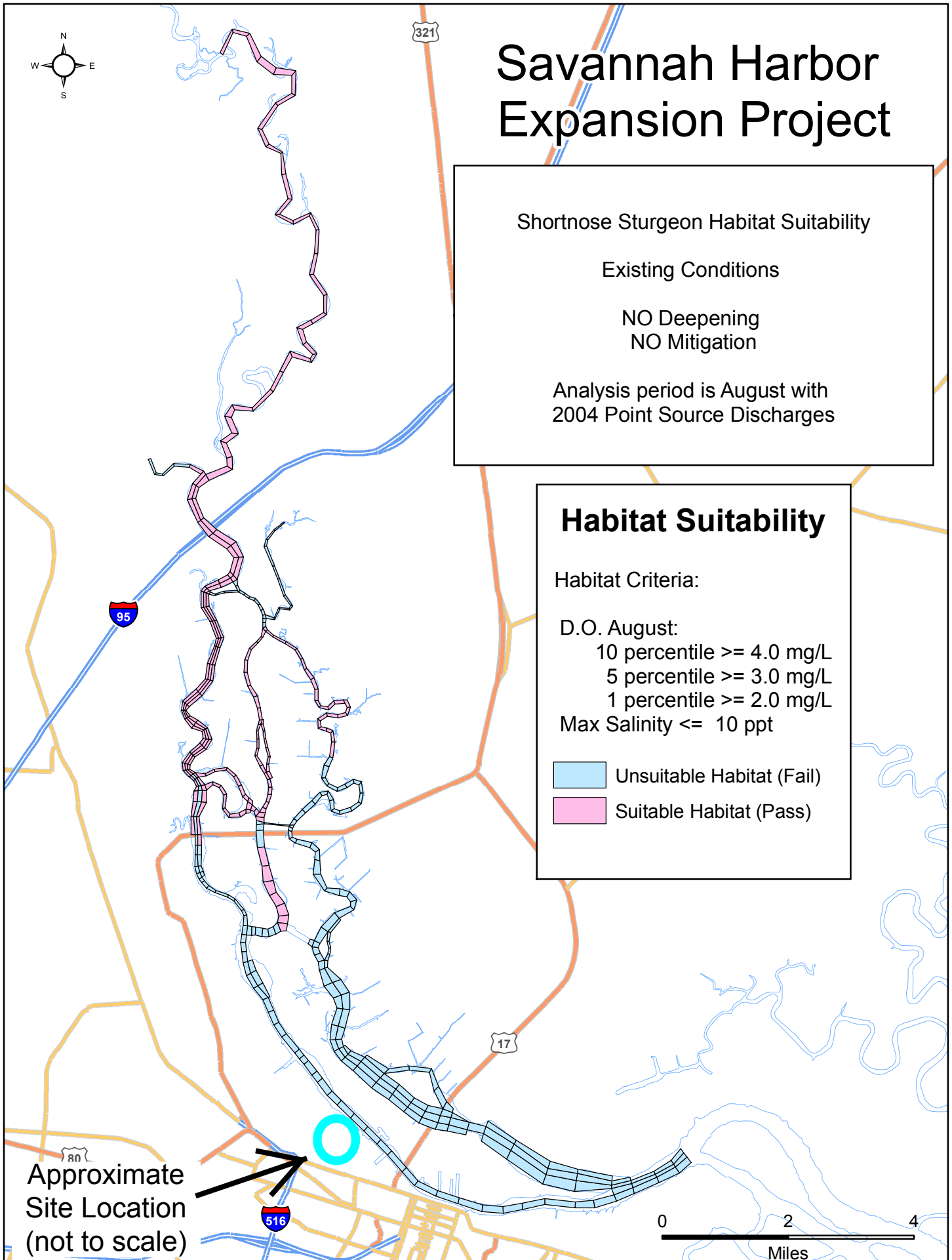
10 percentile ≥ 4.0 mg/L

5 percentile ≥ 3.0 mg/L

1 percentile ≥ 2.0 mg/L

Max Salinity ≤ 10 ppt

-  Unsuitable Habitat (Fail)
-  Suitable Habitat (Pass)



Approximate
Site Location
(not to scale)

0 2 4
Miles




**Savannah Harbor Expansion
Fishery Impacts**

**Habitat Suitability for
Adult Shortnose Sturgeon**

Existing Conditions ONLY
NO Deepening
NO Mitigation

Analysis period is January with
2004 point source discharges.

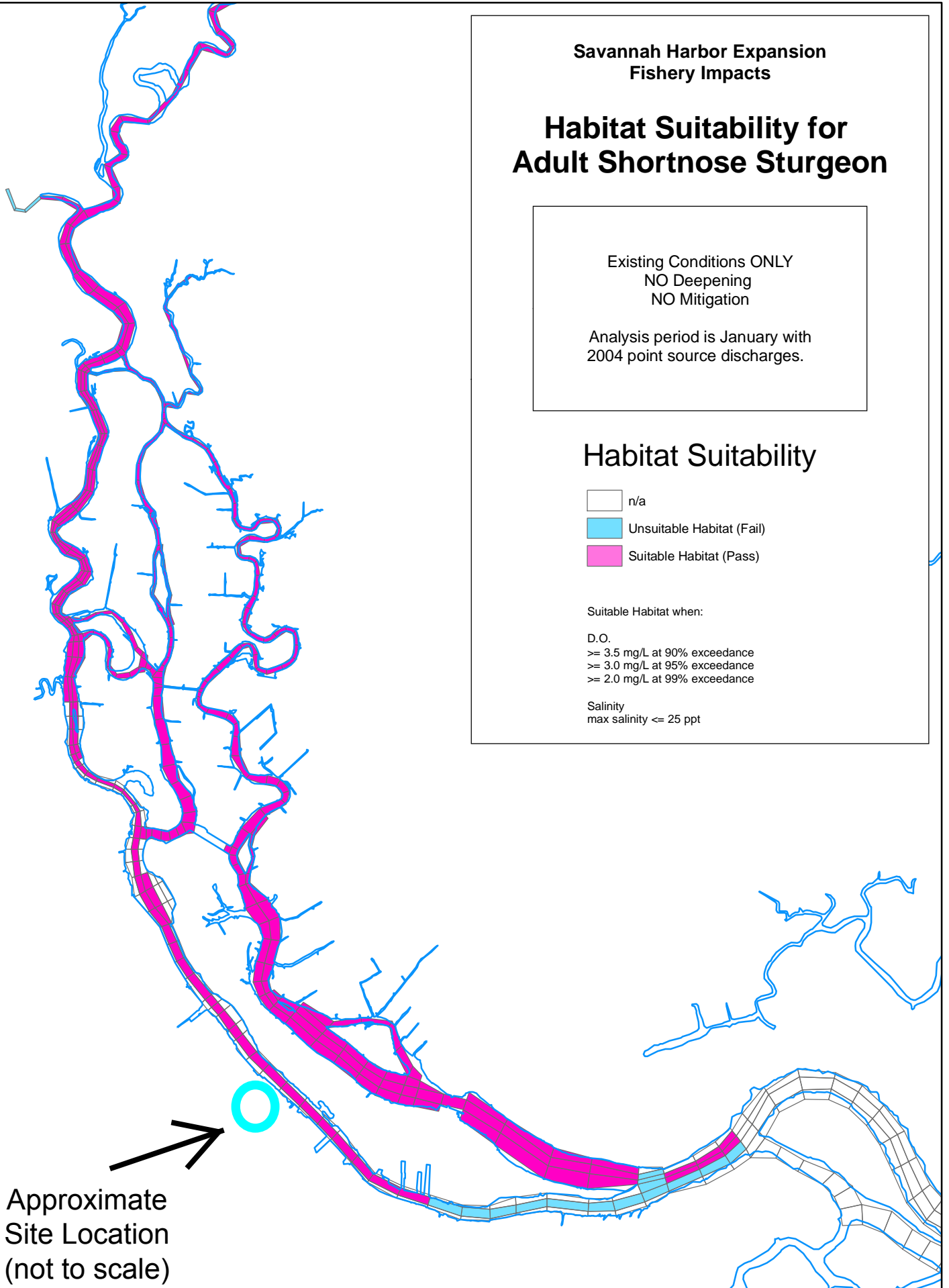
Habitat Suitability

-  n/a
-  Unsuitable Habitat (Fail)
-  Suitable Habitat (Pass)

Suitable Habitat when:

- D.O.
- ≥ 3.5 mg/L at 90% exceedance
- ≥ 3.0 mg/L at 95% exceedance
- ≥ 2.0 mg/L at 99% exceedance

Salinity
max salinity ≤ 25 ppt



Approximate
Site Location
(not to scale)

**Savannah Harbor Expansion
Fishery Impacts**

**Habitat Suitability for
Adult Shortnose Sturgeon**

Comparison between Existing Conditions
and

Deepening to 44 ft below MLLW (2 ft)
with Mitigation Plan 6b

Analysis period is January with
2004 point source discharges.

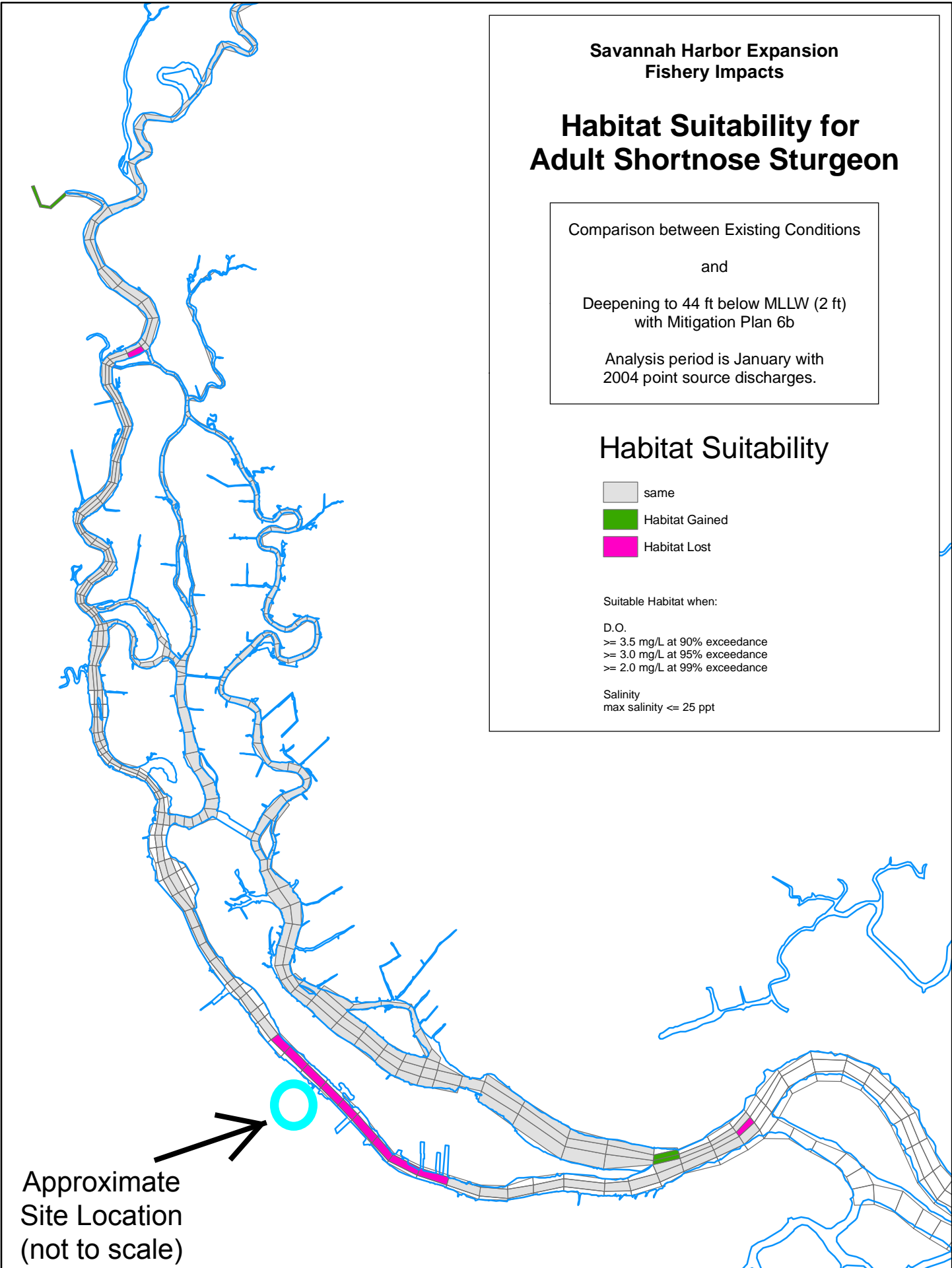
Habitat Suitability

- same
- Habitat Gained
- Habitat Lost

Suitable Habitat when:

- D.O.
- ≥ 3.5 mg/L at 90% exceedance
- ≥ 3.0 mg/L at 95% exceedance
- ≥ 2.0 mg/L at 99% exceedance

Salinity
max salinity ≤ 25 ppt



Approximate
Site Location
(not to scale)

Appendix E

Calculation of Risk Reduction Standards and UCLs

Appendix E

Calculation of Risk Reduction Standards and UCLs

Table E.1 - Example Calculation of Type 4 Risk Reduction Standards for Soil
Colonial Terminals - HSI No. 10098
Savannah, Georgia

ROUTE-SPECIFIC RRSs:

Oral:

$$(RRS_o)_{C \text{ or } NC} = \frac{(TCR \text{ or } THI) \times BW \times (AT_C \text{ or } AT_{NC}) \times (10^6 \text{ mg/kg})}{IR_s \times EF \times ED \times [SF_o \text{ or } (1/RfD_o)]}$$

Inhalation:

$$(RRS_i)_{C \text{ or } NC} = \frac{(TCR \text{ or } THI) \times (AT_C \text{ or } AT_{NC}) \times BW}{[(1/VF) + (1/PEF)] \times IR_{air} \times EF \times ED \times [SF_i \text{ or } (1/RfD_i)]}$$

where:

$$VF = \frac{LS \times V \times DH}{A} \times \frac{(3.14 \times \alpha \times T)^{1/2}}{2 \times Dei \times E \times Kas \times (10^3 \text{ kg/g})}$$

$$\alpha = \frac{Dei \times E}{E + [ps \times (1-E)/Kas]}$$

$$Dei = Di \times E^{0.33}$$

$$Kas = H/(RT \times Kd)$$

Cancer Effects RRS:

$$RRS_C = \frac{1}{\frac{1}{(RRS_o)_C} + \frac{1}{(RRS_i)_C}}$$

Non-Cancer Effects RRS:

$$RRS_{NC} = \frac{1}{\frac{1}{(RRS_o)_{NC}} + \frac{1}{(RRS_i)_{NC}}}$$

Soil RRS

= Minimum result of RRS_C and RRS_{NC}.

where:

- α Alpha; calculation intermediate (cm²/sec).
- A Contiguous area of contamination (20,250,000 cm²; EPA [1991] default).
- AT_C Averaging time for cancer effects (25,550 days).
- AT_{NC} Averaging time for non-cancer effects; ED x 365 days/year.
- BW Body weight (70 kg adult) (GAEPD, 2003).
- DH Diffusion Height (2 m, EPA [1991] default)
- Dei Effective diffusivity (cm²/sec).
- Di Diffusivity in air (cm²/sec); constituent specific.
- E Total soil porosity (0.35 unitless, EPA default).
- ED Exposure duration (25 years industrial (GAEPD, 2003); 25 years utility; 1 year construction).
- EF Exposure frequency (250 days/year industrial (GAEPD, 2003); 5 days/year utility; 65 days/year construction).
- Foc Fraction organic carbon in soil (0.002 unitless, EPA default).
- H Henry's Law Constant (atm·m³/mol); constituent specific.
- H' Dimensionless Henry's Law Constant.
- IR_{air} Inhalation rate (20 m³/day industrial (GAEPD, 2003).
- IR_{soil} Incidental soil ingestion rate (50 mg/day industrial (GAEPD 2003); 330 mg/kg utility; 330 mg/kg construction).
- Kas Soil-air partition coefficient (g soil/ cm³ air).
- Kd Soil-water partition coefficient (cm³/g or mL/g); constituent specific. Kd is calculated as Foc x Koc.
- Koc Organic carbon partition coefficient (cm³/g or mL/g); constituent specific.
- LS Length of side of contaminated area (45 m, EPA default).
- PEF Particulate emission factor (4.63 x 10⁹ m³/kg) (GAEPD, 2003).
- ps True soil or particle density (2.65 g/cm³, EPA default).
- RfDi Reference dose for inhalation (mg/kg/day).
- RfDo Reference dose for ingestion (mg/kg/day).
- RPF Respirable particle fraction (0.036 g/m²/hr).
- RRS Risk reduction standard for soil (mg/kg); minimum of the RRS_C (based on cancer effects) and the RRS_{NC} (based on non-cancer effects), which are based on the route-specific RRSs (RRSo for the oral route and RRSi for the inhalation route).
- RT Product of the ideal gas constant (8.206 x 10⁵ atm·m³/mol/K) and the absolute temperature (K); RT = 0.02445 atm·m³/mol at 25°C (298 K).

**Table E.1 - Example Calculation of Type 4 Risk Reduction Standards for Soil
Colonial Terminals - HSI No. 10098
Savannah, Georgia**

SF	Cancer slope factor or oral (SF _o) or inhalation (SF _i) exposure (kg-day/mg).
T	Exposure interval (7.9 x 10 ⁸ sec, EPA default).
TCR	Target cancer risk (unitless); results presented for TCR value of 10 ⁻⁵ (10 ⁻⁴ for Class C carcinogens).
THI	Target hazard index (unitless); results presented for THI value of 1.
V	Wind speed in the mixing zone (2.25 m/sec, EPA default).
VF	Volatilization factor (m ³ /kg).

SAMPLE CALCULATIONS, Tetrachloroethene, Industrial Exposure (Type 4).

$$Dei = 0.05 \text{ cm}^2/\text{sec} \times (0.35)^{0.33} = 0.0354 \text{ cm}^2/\text{sec}$$

$$Kas = \frac{1.76 \times 10^{-2} \text{ atm-m}^3/\text{mol}}{(0.02445 \text{ atm-m}^3/\text{mol}) \times 1.9 \text{ cm}^3/\text{g}} = 3.79\text{E-}01 \text{ g/cm}^3$$

$$\alpha = \frac{0.0354 \text{ cm}^2/\text{sec} \times 0.35}{0.35 + [2.65 \text{ g/cm}^3 \times (1 - 0.35)/3.79 \times 10^{-1} \text{ g/cm}^3]}$$

$$= 2.53\text{E-}03 \text{ cm}^2/\text{sec}$$

$$VF = \frac{45 \text{ m} \times 2.25 \text{ m/s} \times 2 \text{ m}}{2.03 \times 10^7 \text{ cm}^2} \times \frac{(3.14 \times 2.53 \times 10^{-3} \text{ cm}^2/\text{sec} \times 7.9 \times 10^8 \text{ sec})^2}{2 \times 0.0354 \text{ cm}^2/\text{sec} \times 0.35 \times 3.36 \times 10^{-1} \text{ g/cm}^3 \times 10^{-3} \text{ kg/g}}$$

$$VF = 2,700 \text{ m}^3/\text{kg}$$

CANCER EFFECTS:

Oral:

$$(RRS_o)_c = \frac{10^{-5} \times 70 \text{ kg} \times 25,550 \text{ days} \times 10^6 \text{ mg/kg}}{50 \text{ mg/day} \times 250 \text{ days/yr} \times 25 \text{ yrs} \times (0.0021 \text{ kg-day/mg})}$$

$$= 27,000 \text{ mg/kg}$$

Inhalation:

$$(RRS_i)_c = \frac{10^{-5} \times 70 \text{ kg} \times 25,550 \text{ days}}{(1/2.70 \times 10^3 \text{ m}^3/\text{kg} + 1/4.63 \times 10^9 \text{ m}^3/\text{kg}) \times 250 \text{ days/yr} \times 25 \text{ yrs} \times 20 \text{ m}^3/\text{day} \times 0.000091 \text{ kg-day/mg}}$$

$$= 4,200 \text{ mg/kg}$$

CANCER EFFECTS RRS:

$$RRS_c = \frac{1}{\frac{1}{27,000} + \frac{1}{4,200}} = 3,600 \text{ mg/kg}$$

NON-CANCER EFFECTS:

Oral:

$$(RRS_o)_{nc} = \frac{1 \times 70 \text{ kg} \times 9,125 \text{ days} \times 10^6 \text{ mg/kg}}{50 \text{ mg/day} \times 250 \text{ days/yr} \times 25 \text{ yrs} \times (1/0.006 \text{ mg/kg-day})}$$

$$= 12,000 \text{ mg/kg}$$

Inhalation:

$$(RRS_i)_{nc} = \frac{1 \times 70 \text{ kg} \times 9,125 \text{ days}}{(1/2.70 \times 10^3 \text{ m}^3/\text{kg} + 1/4.63 \times 10^9 \text{ m}^3/\text{kg}) \times 250 \text{ days/yr} \times 25 \text{ yrs} \times 20 \text{ m}^3/\text{day} \times (1/0.011 \text{ mg/kg-day})}$$

$$= 150 \text{ mg/kg}$$

NON-CANCER EFFECTS RRS:

$$RRS_{nc} = \frac{1}{\frac{1}{12,000 \text{ mg/kg}} + \frac{1}{150 \text{ mg/kg}}} = 150 \text{ mg/kg}$$

Soil RRS = Minimum result of RRS_c (3,600 mg/kg) and RRS_{nc} (150 mg/kg) = 150 mg/kg

**Table E.2 - Physical-Chemical Properties
Colonial Terminals - HSI No. 10098
Savannah, Georgia**

Constituent	Molecular Weight (g/mole)	Di		Dei (cm ² /sec) (calc)	H		Kd		Kas (g/cm ³) (calc)	alpha (cm ² /sec) (calc)	Volatile*	VF (m ³ /kg) (calc)
		(cm ² /sec)	(ref)		(atm-m ³ /mol)	(ref)	(cm ³ /g)	(ref)				
1,1-Dichloroethene	96.94	8.60E-02	ORNL	6.08E-02	2.68E-02	ORNL	6.36E-01	ORNL	1.72E+00	1.58E-02	YES	8.53E+02
cis-1,2-Dichloroethene	96.94	8.80E-02	ORNL	6.22E-02	4.15E-03	ORNL	7.92E-01	ORNL	2.14E-01	2.59E-03	YES	2.72E+03
trans-1,2-Dichloroethene	96.94	8.80E-02	ORNL	6.22E-02	4.15E-03	ORNL	7.92E-01	ORNL	2.14E-01	2.59E-03	YES	2.72E+03
Methylene Chloride	84.93	1.00E-01	ORNL	7.07E-02	3.17E-03	ORNL	4.35E-01	ORNL	2.98E-01	4.04E-03	YES	2.14E+03
Tetrachloroethene	165.83	5.00E-02	ORNL	3.54E-02	1.76E-02	ORNL	1.90E+00	ORNL	3.78E-01	2.52E-03	YES	2.67E+03
Trichloroethene	131.39	6.90E-02	ORNL	4.88E-02	9.76E-03	ORNL	1.21E+00	ORNL	3.29E-01	3.05E-03	YES	2.45E+03
Vinyl Chloride	62.5	1.10E-01	ORNL	7.78E-02	2.68E-02	ORNL	4.35E-01	ORNL	2.52E+00	2.64E-02	YES	5.88E+02
2,4-Dinitrotoluene	182.14	0.00E+00	ORNL	0.00E+00	5.37E-08	ORNL	1.15E+01	ORNL	1.91E-07	0.00E+00	No	
Antimony	124.78	—	40	—	0.00E+00	0	4.50E+01	44	0.00E+00	—	No	
Arsenic	77.95	—	40	—	0.00E+00	0	2.90E+01	44	0.00E+00	—	No	
Barium	137.33	—	40	—	0.00E+00	0	4.10E+01	44	0.00E+00	—	No	
Beryllium	9.01	—	40	—	0.00E+00	0	7.90E+02	44	0.00E+00	—	No	
Cadmium	112.41	—	40	—	0.00E+00	0	7.50E+01	44	0.00E+00	—	No	
Chromium (total)	52	—	40	—	0.00E+00	0	1.90E+01	44	0.00E+00	—	No	
Chromium III	0	—	0	—	0.00E+00	0	1.80E+06	44	0.00E+00	—	No	
Chromium VI	0	—	40	—	0.00E+00	0	1.90E+01	44	0.00E+00	—	No	
Copper	63.55	—	40	—	0.00E+00	0	4.30E+02	50.2	0.00E+00	—	No	
Lead	207.2	—	—	—	0.00E+00	—	9.00E+02	50.2	0.00E+00	—	No	
Mercury	200.59	3.07E-02	44	2.17E-02	4.67E-01	44	5.20E+01	44	3.67E-01	1.51E-03	No	
Nickel	58.69	—	40	—	0.00E+00	0	6.50E+01	44	0.00E+00	—	No	
Silver	107.87	—	40	—	0.00E+00	0	8.30E+00	44	0.00E+00	—	No	
Thallium	204.38	—	40	—	0.00E+00	0	7.10E+01	44	0.00E+00	—	No	
Zinc	67.41	—	40	—	0.00E+00	0	6.20E+01	44	0.00E+00	—	No	

* Volatile is defined as the molecular weight is less than 200 g/mole and the Henry's Law Constant is greater than 1E-05 atm-m³/mole
ORNL. 2012. Oak Ridge National Laboratory Regional Screening Levels Tables.

Di Diffusivity in air.
Dei Effective diffusivity.
H Henry's Law Constant.
Koc Organic carbon partition coefficient.
Kas Soil-air partition coefficient.
VF Volatilization factor.

**Table E.3. Toxicity Values
Colonial Terminals - HSI No. 10098
Savannah, Georgia**

Constituent	Cancer Slope Factors (kg-day/mg)					Weight of Evidence	Reference Doses (mg/kg/day)			
	CSFo Oral	(ref)	CSFi Inhalation	(ref)	RfDo Oral		(ref)	RfDi Inhalation	(ref)	
1,1-Dichloroethene					C		5.0E-02	1	5.7E-02	1
cis-1,2-Dichloroethene					ID		2.0E-03	1		
trans-1,2-Dichloroethene							2.0E-02	1	1.7E-02	3
Methylene Chloride	2.0E-03	1	3.5E-06	1	B2		6.0E-03	1	1.7E-01	1
Tetrachloroethene	2.1E-03	1	9.1E-05	1	B2		6.0E-03	1	1.1E-02	1
Trichloroethene	4.6E-02	1	1.4E-02	1	B2		5.0E-04	1	5.7E-04	1
Vinyl Chloride	7.2E-01	1	1.5E-02	1	A		3.0E-03	1	2.9E-02	1
2,4-Dinitrotoluene	3.1E-01	3	3.1E-01	3	B2		2.0E-03	1		
Antimony							4.0E-04	1		
Arsenic	1.5E+00	1	1.5E+01	1	A		3.0E-04	1	4.3E-06	5
Barium					D		2.0E-01	1	1.4E-04	2
Beryllium			8.4E+00	1	B1		2.0E-03	1	5.7E-06	1
Cadmium			6.3E+00	1	B1		1.0E-03	1	5.7E-06	3
Chromium (total)										
Chromium III					D		1.5E+00	1		
Chromium VI	5.0E-01	3	2.9E+02	1	A		3.0E-03	1	2.9E-05	1
Copper					D		4.0E-02	2		
Lead					B2					
Mercury					D		1.0E-04	1		
Nickel			9.1E-01	2	A		2.0E-02	1	2.6E-05	2
Silver					D		5.0E-03	1		
Thallium					D		1.0E-05	2		
Zinc					D		3.0E-01	1		

- USEPA. Integrated Risk Information System (IRIS). On-line database.
- ORNL 2012.

A Known human carcinogen
 B2 Probable human carcinogen
 C Possible human carcinogen
 D Not classifiable as to human carcinogenicity

**Table E.4 - Surface Soil Types 3 and 4 Risk Reduction Standards (0 - 2 feet below ground surface) - Industrial Worker
Colonial Terminals - HSI No. 10098
Savannah, Georgia**

Detected Regulated Substance	Maximum Concentration Detected from 0-2 ft (mg/kg)	Surface Soil Type 3 RRS (mg/kg)	Source of Surface Soil Type 3	Surface Soil Type 4 RRS Industrial Worker (mg/kg)	Source of Type 4 Standard
1,1-Dichloroethene	0	0.7	T1 GWx100	250	RBC
cis-1,2-Dichloroethene	0	7	T1 GWx100	4,100	RBC
trans-1,2-Dichloroethene	0	10	T1 GWx100	240	RBC
Methylene Chloride	0.047	0.5	T1 GWx100	1,600	RBC
Tetrachloroethene	0	0.5	T1 GWx100	150	RBC
Trichloroethene	0.02	0.5	T1 GWx100	7.1	RBC
Vinyl Chloride	0	0.2	T1 GWx100	5.1	RBC
2,4-Dinitrotoluene	0	1	T1 GWx100	180	RBC
Antimony	29	10	NC	820	RBC
Arsenic	230	38	PRGc-Ind	38	RBC
Barium	120	1,000	A-III	360,000	RBC
Beryllium	0.7	3	NC	4,000	RBC
Cadmium	2.5	39	NC	2,000	RBC
Chromium (total)	69	1,200	NC	1,200	NC
Chromium III	69	1,200	NC	3,100,000	RBC
Chromium VI	69	110	PRGc-Ind	110	RBC
Copper	300	1,500	NC	82,000	RBC
Lead	1,500	400	NC	930	GALM
Mercury	2.2	17	NC	200	RBC
Nickel	25	420	NC	38,000	RBC
Silver	0	10	NC	10,000	RBC
Thallium	0.29	10	NC	20	RBC
Zinc	320	2,800	NC	610,000	RBC

BOLD Risk Reduction Standard exceeded.
 GALM Georgia Adult Lead Model
 NC Notification Criteria
 RBC Risk Based Concentration
 T1 GW x 100 Type 1 Groundwater RRS x 100

Table E.5 - Georgia Adult Blood Lead Model
Colonial Terminals - HSI No. 10098
Savannah, Georgia

$$PbB = \frac{PbB_{fetal}}{R \times GSD^{1.645}} \quad Cs = \left[\frac{PbB - PbB_b}{BSF \times \frac{EF}{AT}} - (C_w \times I_w \times A_w) \right] \times [I_s \times A_s]^{-1}$$

		Construction Worker	Industrial Worker	Utility Worker
PbBb	= Typical blood lead concentration in adults, specifically women of child-bearing age,	1.38	1.38	1.38
PbBfetal	= The blood lead goal for the unborn fetus, defined as the concentration which will	10	10	10
GSD	= Geometric standard deviation of blood lead concentration among the exposed	2.04	2.04	2.04
R	= Constant of proportionality between fetal blood lead concentration at birth and	0.9	0.9	0.9
BSF	= Biokinetic slope factor relating (quasi-steady state) increase in typical adult blood	0.4	0.4	0.4
EF	= Exposure frequency for contact with assessed soils and/or dust derived in part from	65	219	5
AT	= Averaging time for continuing long term exposures (days/yr)	365	365	365
Is	= Intake rate of soil, predominantly occupational exposures to indoor soil-derived	0.05	0.05	0.05
As	= Absolute gastrointestinal absorption fraction for ingested lead in soil and in dust	0.12	0.12	0.12
Cw	= Concentration of lead in ground water at site (µg/L); provided, however, when	15	15	15
Iw	= Intake rate of water from on-site groundwater (L/day)	0.01	1	0.01
Aw	= Absolute gastrointestinal absorption fraction for ingested lead in drinking water	0.2	0.2	0.2
PbB	= Average adult blood level that is protective of the fetus	3.44	3.44	3.44
Cs	= Soil target concentration; i.e., concentration of lead in soil that is goal for the site	4,800	930	63,000

Table E.6 - RAGS Calculations for Potential Industrial Worker Exposure to Soil (Type 4)
Colonial Terminals - HSI No. 10098
Savannah, Georgia

Constituent	CANCER EFFECTS			NON-CANCER EFFECTS			Calculated Goal (mg/kg)
	Route-Specific RRSs (mg/kg)		RRSc (mg/kg)	Route-Specific RRSs (mg/kg)		RRSnc (mg/kg)	
	Oral	Inhalation		Oral	Inhalation		
1,1-Dichloroethene				1.0E+05	2.5E+02	250	250
cis-1,2-Dichloroethene				4.1E+03		4,100	4,100
trans-1,2-Dichloroethene				4.1E+04	2.4E+02	240	240
Methylene Chloride	2.9E+04	8.8E+04	22,000	1.2E+04	1.9E+03	1,600	1,600
Tetrachloroethene	2.7E+04	4.2E+03	3,600	1.2E+04	1.6E+02	150	150
Trichloroethene	1.2E+03	2.4E+01	24	1.0E+03	7.2E+00	7.1	7.1
Vinyl Chloride	7.9E+01	5.5E+00	5.1	6.1E+03	8.6E+01	85	5.1
2,4-Dinitrotoluene	1.8E+02	2.1E+06	180	4.1E+03		4,100	180
Antimony				8.2E+02		820	820
Arsenic	3.8E+01	4.4E+04	38	6.1E+02	1.0E+05	610	38
Barium				4.1E+05	3.4E+06	360,000	360,000
Beryllium		7.9E+04	79,000	4.1E+03	1.4E+05	4,000	4,000
Cadmium		1.1E+05	110,000	2.0E+03	1.4E+05	2,000	2,000
Chromium (total)							
Chromium III				3.1E+06		3,100,000	3,100,000
Chromium VI	1.1E+02	2.3E+03	110	6.1E+03	6.8E+05	6,100	110
Copper				8.2E+04		82,000	82,000
Lead							
Mercury				2.0E+02		200	200
Nickel		7.3E+05	730,000	4.1E+04	6.1E+05	38,000	38,000
Silver				1.0E+04		10,000	10,000
Thallium				2.0E+01		20	20
Zinc				6.1E+05		610,000	610,000

The Type 4 RRSc (for carcinogens) is calculated using a target cancer risk (TCR) of 10⁻⁵; RRSnc (for noncarcinogens) is calculated using a target hazard index (THI) of 1.
mg/kg Milligram per kilogram.

**Table E.7 - Soil Types 3 and 4 Risk Reduction Standards (2 - 10 feet below ground surface) - Utility Worker
Colonial Terminals - HSI No. 10098
Savannah, Georgia**

Detected Regulated Substance	Maximum Concentration Detected from 2-10 ft (mg/kg)	Soil Type 3 RRS (mg/kg)	Source of Surface Soil Type 3	Soil Type 4 RRS Utility Worker (mg/kg)	Source of Type 4 Standard
1,1-Dichloroethene	3.8	0.7	T1 GWx100	12,000	RBC
cis-1,2-Dichloroethene	0.66	7	T1 GWx100	31,000	RBC
trans-1,2-Dichloroethene	0	10	T1 GWx100	11,000	RBC
Methylene Chloride	32	0.5	T1 GWx100	47,000	RBC
Tetrachloroethene	400	0.5	T1 GWx100	7,200	RBC
Trichloroethene	19	0.5	T1 GWx100	340	RBC
Vinyl Chloride	0.0086	0.2	T1 GWx100	3,900	RBC
2,4-Dinitrotoluene	460	1	T1 GWx100	31,000	RBC
Antimony	29	10	NC	6,200	RBC
Arsenic	850	38	PRGc-Ind	4,600	RBC
Barium	176	1,000	A-III	3,000,000	RBC
Beryllium	0.7	3	NC	31,000	RBC
Cadmium	4.95	39	NC	15,000	RBC
Chromium (total)	69	1,200	NC	1,200	NC
Chromium III	69	1,200	NC	23,000,000	RBC
Chromium VI	69	110	PRGc-Ind	22,000	RBC
Copper	1,910	1,500	NC	620,000	RBC
Lead	17,000	400	NC	63,000	GALM
Mercury	15.4	17	NC	1,500	RBC
Nickel	25	420	NC	310,000	RBC
Silver	6.21	10	NC	77,000	RBC
Thallium	0.29	10	NC	150	RBC
Zinc	3,400	2,800	NC	4,600,000	RBC

BOLD Risk Reduction Standard exceeded.
 GALM Georgia Adult Lead Model
 NC Notification Criteria
 RBC Risk Based Concentration
 T1 GW x 100 Type 1 Groundwater RRS x 100

Table E.8 - RAGS Calculations for Potential Utility Worker Exposure to Soil (Type 4)
Colonial Terminals - HSI No. 10098
Savannah, Georgia

Constituent	CANCER EFFECTS			NON-CANCER EFFECTS			Calculated Goal (mg/kg)
	Route-Specific RRSs (mg/kg)		RRSc (mg/kg)	Route-Specific RRSs (mg/kg)		RRSnc (mg/kg)	
	Oral	Inhalation		Oral	Inhalation		
1,1-Dichloroethene				7.7E+05	1.2E+04	12,000	12,000
cis-1,2-Dichloroethene				3.1E+04		31,000	31,000
trans-1,2-Dichloroethene				3.1E+05	1.2E+04	11,000	11,000
Methylene Chloride	5.4E+06	1.1E+08	5,200,000	9.3E+04	9.4E+04	47,000	47,000
Tetrachloroethene	5.2E+06	5.3E+06	2,600,000	9.3E+04	7.8E+03	7,200	7,200
Trichloroethene	2.4E+05	3.1E+04	27,000	7.7E+03	3.6E+02	340	340
Vinyl Chloride	1.5E+04	6.8E+03	4,700	4.6E+04	4.3E+03	3,900	3,900
2,4-Dinitrotoluene	3.5E+04	2.7E+09	35,000	3.1E+04		31,000	31,000
Antimony				6.2E+03		6,200	6,200
Arsenic	7.2E+03	5.5E+07	7,200	4.6E+03	5.1E+06	4,600	4,600
Barium				3.1E+06	1.7E+08	3,000,000	3,000,000
Beryllium		9.9E+07	99,000,000	3.1E+04	6.8E+06	31,000	31,000
Cadmium		1.3E+08	130,000,000	1.5E+04	6.8E+06	15,000	15,000
Chromium (total)							
Chromium III				2.3E+07		23,000,000	23,000,000
Chromium VI	2.2E+04	2.9E+06	22,000	4.6E+04	3.4E+07	46,000	22,000
Copper				6.2E+05		620,000	620,000
Lead							
Mercury				1.5E+03		1,500	1,500
Nickel		9.1E+08	910,000,000	3.1E+05	3.0E+07	310,000	310,000
Silver				7.7E+04		77,000	77,000
Thallium				1.5E+02		150	150
Zinc				4.6E+06		4,600,000	4,600,000

The Type 4 RRSc (for carcinogens) is calculated using a target cancer risk (TCR) of 10⁻⁵; RRSnc (for noncarcinogens) is calculated using a target hazard index (THI) of 1.
mg/kg Milligram per kilogram.

**Table E.9 - Soil Types 3 and 4 Risk Reduction Standards (2 - 10 feet below ground surface) - Construction Worker
Colonial Terminals - HSI No. 10098
Savannah, Georgia**

Detected Regulated Substance	Maximum Concentration Detected from 2-10 ft (mg/kg)	Soil Type 3 RRS (mg/kg)	Source of Surface Soil Type 3	Soil Type 4 RRS Construction Worker (mg/kg)	Source of Type 4 Standard
1,1-Dichloroethene	3.8	0.7	T1 GWx100	940	RBC
cis-1,2-Dichloroethene	0.66	7	T1 GWx100	2,400	RBC
trans-1,2-Dichloroethene	0	10	T1 GWx100	880	RBC
Methylene Chloride	32	0.5	T1 GWx100	3,600	RBC
Tetrachloroethene	400	0.5	T1 GWx100	550	RBC
Trichloroethene	19	0.5	T1 GWx100	26	RBC
Vinyl Chloride	0.0086	0.2	T1 GWx100	300	RBC
2,4-Dinitrotoluene	460	1	T1 GWx100	2,400	RBC
Antimony	29	10	NC	480	RBC
Arsenic	850	38	PRGc-Ind	360	RBC
Barium	176	1,000	A-III	230,000	RBC
Beryllium	0.7	3	NC	2,400	RBC
Cadmium	4.95	39	NC	1,200	RBC
Chromium (total)	69	1,200	NC	1,200	NC
Chromium III	69	1,200	NC	1,800,000	RBC
Chromium VI	69	110	PRGc-Ind	1,700	RBC
Copper	1,910	1,500	NC	48,000	RBC
Lead	17,000	400	NC	4,800	GALM
Mercury	15.4	17	NC	120	RBC
Nickel	25	420	NC	24,000	RBC
Silver	6.21	10	NC	6,000	RBC
Thallium	0.29	10	NC	12	RBC
Zinc	3,400	2,800	NC	360,000	RBC

BOLD Risk Reduction Standard exceeded.
 GALM Georgia Adult Lead Model
 NC Notification Criteria
 RBC Risk Based Concentration
 T1 GW x 100 Type 1 Groundwater RRS x 100

Table E.10 - RAGS Calculations for Potential Construction Worker Exposure to Soil (Type 4)
Colonial Terminals - HSI No. 10098
Savannah, Georgia

Constituent	CANCER EFFECTS			NON-CANCER EFFECTS			Calculated Goal (mg/kg)
	Route-Specific RRSs (mg/kg)		RRSc (mg/kg)	Route-Specific RRSs (mg/kg)		RRSnc (mg/kg)	
	Oral	Inhalation		Oral	Inhalation		
1,1-Dichloroethene				6.0E+04	9.6E+02	940	940
cis-1,2-Dichloroethene				2.4E+03		2,400	2,400
trans-1,2-Dichloroethene				2.4E+04	9.2E+02	880	880
Methylene Chloride	4.2E+05	8.4E+06	400,000	7.1E+03	7.2E+03	3,600	3,600
Tetrachloroethene	4.0E+05	4.0E+05	200,000	7.1E+03	6.0E+02	550	550
Trichloroethene	1.8E+04	2.4E+03	2,100	6.0E+02	2.8E+01	26	26
Vinyl Chloride	1.2E+03	5.3E+02	360	3.6E+03	3.3E+02	300	300
2,4-Dinitrotoluene	2.7E+03	2.0E+08	2,700	2.4E+03		2,400	2,400
Antimony				4.8E+02		480	480
Arsenic	5.6E+02	4.2E+06	560	3.6E+02	3.9E+05	360	360
Barium				2.4E+05	1.3E+07	230,000	230,000
Beryllium		7.6E+06	7,600,000	2.4E+03	5.2E+05	2,400	2,400
Cadmium		1.0E+07	10,000,000	1.2E+03	5.2E+05	1,200	1,200
Chromium (total)							
Chromium III				1.8E+06		1,800,000	1,800,000
Chromium VI	1.7E+03	2.2E+05	1,700	3.6E+03	2.6E+06	3,600	1,700
Copper				4.8E+04		48,000	48,000
Lead							
Mercury				1.2E+02		120	120
Nickel		7.0E+07	70,000,000	2.4E+04	2.3E+06	24,000	24,000
Silver				6.0E+03		6,000	6,000
Thallium				1.2E+01		12	12
Zinc				3.6E+05		360,000	360,000

The Type 4 RRSc (for carcinogens) is calculated using a target cancer risk (TCR) of 10⁻⁵; RRSnc (for noncarcinogens) is calculated using a target hazard index (THI) of 1.
 mg/kg Milligram per kilogram.

Table E.11 - Soil Data for UCL Calculations
Colonial Terminals - HSI No. 10098
Savannah, Georgia

Surface Soil Locations	Arsenic (mg/kg)	Surface Soil Locations (Cont.)	Arsenic (mg/kg)	Surface Soil Locations	Lead (mg/kg)	Surface Soil Locations (Cont.)	Lead (mg/kg)	Subsurface Soil Locations	Arsenic (mg/kg)	Subsurface Soil Locations	Arsenic (mg/kg)	Subsurface Soil Locations (Cont.)	Arsenic (mg/kg)	Subsurface Soil Locations	Lead (mg/kg)	Subsurface Soil Locations (Cont.)	Lead (mg/kg)	Subsurface Soil Locations (Cont.)	Lead (mg/kg)
1042-W	22	SB-58	1	1042-W	230	SL-BF-1	50	1020SW	96	SB-20	66	B-SB-28	250	1020SW	520	SB-20	3400	C-SB-1	1,800
1054W	34	SL-BF-1	7.7	1054W	350	SL-BF-2	200	1021SW	100	SB-20	2.2	B-SB-38 DUP	110	1021SW	1500	SB-20	11	C-SB-3	800
1058W-S-R	9	SL-BF-2	22	1058W-S-R	56	SL-BF-3	25	1022W-R	50	SB-21	5.7	B-SB-48 DUP	600	1022W-R	630	SB-27	50	C-SB-4	1,800
1065W	19	SL-BF-3	2.5	1065W	160	A-SB-1	390	A1-Floor	100	SB-27	5.7	B-SB-53 DUP	690	A1-Floor	82	SB-28	2000	C-SB-4	160
1066W	2.3	A-SB-1	88	1066W	51	A-SB-5	550	A2-Floor	85	SB-27	4.8	C-SB-1	160	A2-Floor	41	SB-28	150	C-SB-5	69
1072-W	6.2	A-SB-5	37	1072-W	57	B-SB-1	74	A3-Floor	120	SB-28	850	C-SB-1	230	A3-Floor	550	SB-32	9.2	C-SB-5	150
1079W	9.3	B-SB-1	5.9	1079W	82	B-SB-10	140	A4-Floor	69	SB-28	300	C-SB-3	110	A4-Floor	1000	SB-37	8600	C-SB-6	36
1081W	23	B-SB-10	13	1081W	180	B-SB-12	89	A5-Floor	280	SB-29	23	C-SB-4	130	A5-Floor	670	SB-38	960	C-SB-6	35
1086W-R	25	B-SB-12	17	1086W-R	120	B-SB-13	200	Area D Bottom-Center	75.2	SB-32	3.9	C-SB-4	18	Area D Bottom-Center	69	SB-38	3700	E-SB-1	660
1095W	15	B-SB-13	29	1095W	140	B-SB-18	720	Area D Bottom-NE	31.4	SB-33	99	C-SB-5	5.1	Area D Bottom-NE	72.9	SB-40	1100	E-SB-1	29
A1-W-N (R)	4.7	B-SB-18	64	A1-W-N (R)	31	B-SB-2	260	Area D Bottom-NW	65.6	SB-37	140	C-SB-5	9.7	Area D Bottom-NW	60	SB-41	1700	E-SB-3	11
A4-Wall South	7	B-SB-2	19	A4-Wall South	560	B-SB-20	240	Area D Bottom-SE	32	SB-38	65	C-SB-6	3.6	Area D Bottom-SE	70.4	SB-41	27	E-SB-4	540
A5-W-S	25	B-SB-20	51	A5-W-S	430	B-SB-27	530	Area D Bottom-SW	67.9	SB-38	220	C-SB-6	3.1	Area D Bottom-SW	55.6	SB-42	15	E-SB-4	24
Area D SW-East	2.14	B-SB-27	48	Area D SW-East	5.64	B-SB-3	640	C-Floor	55	SB-40	48	E-SB-1	54	C-Floor	250	SB-42	8.6	F-SB-1	1,000
Area D SW-North	3.42	B-SB-3	23	Area D SW-North	38.5	B-SB-3 DUP	14	C-W-E	7.1	SB-41	24	E-SB-1	5.5	C-W-E	98	SB-45	140	F-SB-7	650
Area D SW-South	2.12	B-SB-3 DUP	4.5	Area D SW-South	3.2	B-SB-42	150	C-W-N	42	SB-41	67	E-SB-3	3.6	C-W-N	420	SB-45	2.8	F-SB-8	310
Area D SW-West	9.43	B-SB-42	14	Area D SW-West	4.71	B-SB-44	21	C-W-S	120	SB-42	20	E-SB-4	37	C-W-S	1300	SB-46	14	F-SB-10	1,500
B2-SUP-WS1	11	B-SB-44	3.7	B2-SUP-WS1	220	B-SB-52	700	C-W-W (R)	20	SB-42	11	E-SB-4	3.9	C-W-W (R)	13	SB-46	8	F-SB-13	370
B2-SUP-WS2	7.9	B-SB-52	15	B2-SUP-WS2	55	B-SB-53	160	D-1-Floor	94	SB-43	5.4	F-SB-1	120	D-1-Floor	670	SB-47	34	F-SB-14	440
B2-SUP-WS3	18	B-SB-53	11	B2-SUP-WS3	170	B-SB-8	120	D-1-Floor-2	100	SB-43	4.9	F-SB-7	22	D-1-Floor-2	810	SB-47	6.1	F-SB-15	440
B2-SUP-WS4	23	B-SB-8	9.3	B2-SUP-WS4	330	B-SB-9	440	D-1-Floor-3	8.1	SB-44	310	F-SB-8	11	D-1-Floor-3	14	SB-48	95	F-SB-16	100
B2-SUP-WS5-R	17	B-SB-9	37	B2-SUP-WS5-R	130	C-SB-1	180	D-2-Floor	92	SB-45	9.6	F-SB-10	81	D-2-Floor	95	SB-49	18	F-SB-18	1,100
B2-SUP-WW	31	C-SB-1	32	B2-SUP-WW	310	C-SB-4	35	D-3-Floor	56	SB-45	0.97	F-SB-13	64	D-3-Floor	280	SB-50	44	F-SB-20	840
B3-SUP-WS	5.9	C-SB-4	7.5	B3-SUP-WS	200	C-SB-5	12	E-Floor	18	SB-46	2.4	F-SB-14	46	E-Floor	260	SB-52	28	G-SB-1	17
B3-SUP-WW	8.4	C-SB-5	3.9	B3-SUP-WW	100	C-SB-6	75	E-W-E	4.3	SB-46	7.2	F-SB-15	21	E-W-E	10	SB-53	5.1	G-SB-3	15
D2R-W-E	18	C-SB-6	9.5	D2R-W-E	160	D-SB-2	720	E-W-N	65	SB-48	6.8	F-SB-16	21	E-W-N	1400	SB-54	13	G-SB-4	2,100
D-2-SW-E	230	D-SB-2	62	D-2-SW-E	110	D-SB-8	630	E-W-S	18	SB-49	37	F-SB-18	46	E-W-S	280	SB-55	1400	G-SB-5	15
D-2-SW-S	13	D-SB-8	76	D-2-SW-S	140	E-SB-1	100	E-W-W	14	SB-50	5.7	F-SB-20	63	E-W-W	210	SB-56	3200	G-SB-6	12
D-3-SW-N	22	E-SB-1	7.3	D-3-SW-N	180	E-SB-4	460	F1-Floor	31	SB-52	12	G-SB-1	3.9	F1-Floor	670	SB-57	4.6	G-SB-7	830
D-3-SW-S	16	E-SB-4	27	D-3-SW-S	170	F-SB-1	380	F2-Floor	38	SB-53	1.1	G-SB-3	3.8	F2-Floor	560	SB-58	5.6	G-SB-8	460
D-3-SW-W	6	F-SB-1	26	D-3-SW-W	92	F-SB-7	230	F3-Floor 1	62	SB-54	3.8	G-SB-4	120	F3-Floor 1	21	SB-59	230	G-SB-9	340
D-Berm-2	25	F-SB-7	25	D-Berm-2	330	F-SB-8	160	F3-Floor 2	7.3	SB-55	22	G-SB-5	12	F3-Floor 2	17	SB-59	7.5	G-SB-10	34
D-Berm-W-S	31	F-SB-8	20	D-Berm-W-S	300	F-SB-9	440	F3-W-E	73	SB-56	270	G-SB-6	3.4	F3-W-E	1000	SB-60	580	I-SB-1	12
D-HA-2	17.4	F-SB-9	28	D-HA-2	107	F-SB-10	270	F4-Floor	5.6	SB-57	1.1	G-SB-7	62	F4-Floor	11	SB-60	5.9	I-SB-2	67
D-HA-3	6.7	F-SB-10	26	D-HA-3	52.1	F-SB-20	230	F4-W-E	21	SB-58	1.7	G-SB-8	140	F4-W-E	30	SB-61	95	I-SB-3	260
F SUP NW	24	F-SB-20	15	F SUP NW	410	G-SB-5	10	F5-Floor	9.7	SB-59	31	G-SB-9	240	F5-Floor	14	SB-61	20	I-SB-4	38
F SUP SW	13	G-SB-5	3.4	F SUP SW	150	H-SB-6	160	F5-Floor 3	3.9	SB-59	1.5	G-SB-10	30	F5-Floor 3	14	SB-62	180	I-SB-5	260
F5-W-S	6.5	H-SB-1	3.2	F5-W-S	74	H-SB-7	250	F5-Floor 2	6.2	SB-60	75	I-SB-1	63.6	F5-Floor 2	82	SB-63	2.9	I-SB-8	660
F6-W-W	30	H-SB-5	3.5	F6-W-W	240	I-SB-10	170	F5-W-S	74	SB-60	4.8	I-SB-2	6	F5-W-S	1000	SB-64	8.2	I-SB-9	11
G4-W-S	24	H-SB-6	15	G4-W-S	370	I-SB-3	120	F5-W-S	8.3	SB-61	96	I-SB-3	29	F5-W-S	90	SB-65	11	I-SB-10	42
G-NW-SW	38	H-SB-7	20	G-NW-SW	640	I-SB-9	140	F6 Floor 1	46	SB-61	5.9	I-SB-4	6.2	F6 Floor 1	990	SB-66	94		
G-W-N	29	I-SB-10	14	G-W-N	540	MW-2	17	F6 Floor 2	33	SB-62	8.3	I-SB-5	25	F6 Floor 2	370	SB-67	53		
I16	37	I-SB-3	16	I16	330			F-Floor	31	SB-63	1	I-SB-8	15	F-Floor	690	SB-68	17		
I1-SW	15	I-SB-9	18	I1-SW	150			G2NE	96	SB-64	3.1	I-SB-9	4.9	G2NE	2100	SB-68	10		
I3-W-W	23	MW-2	3.4	I3-W-W	220			G4 - Floor	27	SB-65	4	I-SB-10	15	G4 - Floor	64	SB-69	620		
I4-W-S	4.8			I4-W-S	57			G5-Floor	56	SB-66	5.4			G5-Floor	110	SB-69	11		
I5-W-N (R)	20			I5-W-N (R)	120			G5-W-E (R)	18	SB-67	6.4			G5-W-E (R)	77	SB-70	2.8		
I6-W-W	14			I6-W-W	99			G5-W-N	43	SB-68	7.8			G5-W-N	25	SB-70	11		
I7-W-S	21			I7-W-S	150			G5-W-S	34	SB-68	7.5			G5-W-S	76	SB-71	8.2		
I7-W-W	34			I7-W-W	290			G-Floor	96	SB-69	28			G-Floor	1000	SB-72	5.2		
I8-W-S	20			I8-W-S	180			G-N2-Floor	43	SB-69	13			G-N2-Floor	1300	SB-72	18		
I8-W-W	11			I8-W-W	110			G-N-Floor	100	SB-70	3.3			G-N-Floor	1400	SB-73	250		
I9-W-N	17			I9-W-N	180			I1-Floor	5.7	SB-70	8.8			I1-Floor	45	SB-74	19		
SB-1	9			SB-1	72			I2-Floor	25	SB-71	3.7			I2-Floor	220	SB-74	16		
SB-2	28			SB-2	160			I3-Floor	24	SB-72	12			I3-Floor	210	SL-BF-1	9.7		
SB-4	11			SB-4	16			I4-Floor	200	SB-72	59			I4-Floor	700	SL-BF-2	14		
SB-5	2			SB-5	5			I4-W-N	33	SB-73	15			I4-W-N	350	SL-BF-3	5.1		
SB-6	4			SB-6	60			I4-W-W	22	SB-74	21			I4-W-W	43	Station 12+00	3390		
SB-7	2.3			SB-7	23			I5-Floor	20	SB-74	8.2			I5-Floor	77	Station 13+00	19		
SB-8	89			SB-8	230			I6-Floor	14	SL-BF-1	1.7			I6-Floor	180	Station 15+00	68.9		
SB-9	13			SB-9	430			I7-Floor	32	SL-BF-2	3.6			I7-Floor	210	Station 16+00	4.99		
SB-20	8			SB-20	160			I8-Floor	37	SL-BF-3	1.7			I8-Floor	350	Station 18+00	1200		
SB-22	34			SB-22	390			Station 12+00	20	Station 12+00	619			I9-Floor	210	Station 19+00	732		
SB-23	5.9			SB-23	36			MW-18	52	Station 13+00	45.6			MW-18	250	Station 21+00	3000		
SB-26	15			SB-26	770			MW-19	31	Station 15+00	10.3			MW-19	8.4	A-SB-1	290		
SB-29	21			SB-31	190			MW-19	41	Station 16+00	4.99			MW-19	320	A-SB-5	240		
SB-31	11			SB-32	410			MW-19	5	Station 18+00	34.9			MW-19	27	A-SB-6	600		
SB-32	3.9			SB-34	68			SB-1	2.4	Station 19+00	81.5			SB-1	7.8	B-SB-3	17		
SB-34	6.9			SB-48	230			SB-2	3.1	Station 21+00	306			SB-2	12	B-SB-8	17		
SB-48	21			SB-50	630			SB-3	21	A-SB-1	7.7			SB-3	92	B-SB-13DUP	390		
SB-50	66			SB-52	840			SB-4	8.6	A-SB-5	36			SB-4	11	B-SB-18	200		
SB-52	54			SB-53	5.5			SB-5	3.5	A-SB-6	35			SB-4	6.9	B-SB-23DUP	2,100		
SB-53	1			SB-54	12			SB-6	10	B-SB-3	13			SB-5	31	B-SB-28	1,000		
SB-54	4.2			SB-55	1500			SB-6	6.4	B-SB-8	33			SB-6	67	B-SB-38	1,300		
SB-55	50			SB-56	270			SB-7	22	B-SB-13DUP	20			SB-7	68	B-SB-48 DUP	17,000		
SB-56	19			SB-57	9			SB-8	15	B-SB-18	19			SB-8	19	B-SB-53 DUP	5,600		
SB-57	1.4			SB-58	3.3			SB-9	33	B-SB-23DUP	95			SB-9	410				

A	B	C	D	E	F	G	H	I	J	K	L	
1			General UCL Statistics for Data Sets with Non-Detects									
2	User Selected Options											
3	From File		WorkSheet.wst									
4	Full Precision		OFF									
5	Confidence Coefficient		95%									
6	Number of Bootstrap Operations		5000									
7												
8												
9	SS Arsenic											
10												
11	General Statistics											
12	Number of Valid Data			122			Number of Detected Data			113		
13	Number of Distinct Detected Data			65			Number of Non-Detect Data			9		
14							Percent Non-Detects			7.38%		
15												
16	Raw Statistics					Log-transformed Statistics						
17	Minimum Detected			1			Minimum Detected			0		
18	Maximum Detected			230			Maximum Detected			5.438		
19	Mean of Detected			22.46			Mean of Detected			2.712		
20	SD of Detected			26.14			SD of Detected			0.921		
21	Minimum Non-Detect			1			Minimum Non-Detect			0		
22	Maximum Non-Detect			9.43			Maximum Non-Detect			2.244		
23												
24	Note: Data have multiple DLs - Use of KM Method is recommended					Number treated as Non-Detect			42			
25	For all methods (except KM, DL/2, and ROS Methods),					Number treated as Detected			80			
26	Observations < Largest ND are treated as NDs					Single DL Non-Detect Percentage			34.43%			
27												
28	UCL Statistics											
29	Normal Distribution Test with Detected Values Only					Lognormal Distribution Test with Detected Values Only						
30	Lilliefors Test Statistic			0.207			Lilliefors Test Statistic			0.0914		
31	5% Lilliefors Critical Value			0.0833			5% Lilliefors Critical Value			0.0833		
32	Data not Normal at 5% Significance Level					Data not Lognormal at 5% Significance Level						
33												
34	Assuming Normal Distribution					Assuming Lognormal Distribution						
35	DL/2 Substitution Method						DL/2 Substitution Method					
36	Mean			20.94			Mean			2.546		
37	SD			25.73			SD			1.078		
38	95% DL/2 (t) UCL			24.8			95% H-Stat (DL/2) UCL			28.44		
39												
40	Maximum Likelihood Estimate(MLE) Method					Log ROS Method						
41	Mean			14			Mean in Log Scale			2.579		
42	SD			33.11			SD in Log Scale			1.01		
43	95% MLE (t) UCL			18.97			Mean in Original Scale			21		
44	95% MLE (Tiku) UCL			19.34			SD in Original Scale			25.68		
45							95% t UCL			24.85		
46							95% Percentile Bootstrap UCL			25.03		
47							95% BCA Bootstrap UCL			26.18		
48							95% H UCL			26.85		
49												
50	Gamma Distribution Test with Detected Values Only					Data Distribution Test with Detected Values Only						
51	k star (bias corrected)			1.363			Data Follow Appr. Gamma Distribution at 5% Significance Level					
52	Theta Star			16.48								
53	nu star			308								

A	B	C	D	E	F	G	H	I	J	K	L
54											
55	A-D Test Statistic				0.918	Nonparametric Statistics					
56	5% A-D Critical Value				0.773	Kaplan-Meier (KM) Method					
57	K-S Test Statistic				0.773					Mean	20.95
58	5% K-S Critical Value				0.0879					SD	25.62
59	Data follow Appr. Gamma Distribution at 5% Significance Level									SE of Mean	2.33
60										95% KM (t) UCL	24.81
61	Assuming Gamma Distribution									95% KM (z) UCL	24.78
62	Gamma ROS Statistics using Extrapolated Data									95% KM (jackknife) UCL	24.8
63	Minimum				0.000001					95% KM (bootstrap t) UCL	26.51
64	Maximum				230					95% KM (BCA) UCL	25.41
65	Mean				20.8					95% KM (Percentile Bootstrap) UCL	25.07
66	Median				15.5					95% KM (Chebyshev) UCL	31.1
67	SD				25.83					97.5% KM (Chebyshev) UCL	35.5
68	k star				0.418					99% KM (Chebyshev) UCL	44.13
69	Theta star				49.78						
70	Nu star				102	Potential UCLs to Use					
71	AppChi2				79.68					95% KM (Chebyshev) UCL	31.1
72	95% Gamma Approximate UCL (Use when n >= 40)				26.63						
73	95% Adjusted Gamma UCL (Use when n < 40)				26.7						
74	Note: DL/2 is not a recommended method.										
75											
76	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.										
77	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).										
78	For additional insight, the user may want to consult a statistician.										
79											
80											
81	SS Lead										
82											
83	General Statistics										
84	Number of Valid Data				119	Number of Detected Data				117	
85	Number of Distinct Detected Data				73	Number of Non-Detect Data				2	
86						Percent Non-Detects				1.68%	
87											
88	Raw Statistics					Log-transformed Statistics					
89	Minimum Detected				3.2	Minimum Detected				1.163	
90	Maximum Detected				1500	Maximum Detected				7.313	
91	Mean of Detected				230.6	Mean of Detected				4.897	
92	SD of Detected				227.3	SD of Detected				1.235	
93	Minimum Non-Detect				4.71	Minimum Non-Detect				1.55	
94	Maximum Non-Detect				5	Maximum Non-Detect				1.609	
95											
96	Note: Data have multiple DLs - Use of KM Method is recommended					Number treated as Non-Detect				4	
97	For all methods (except KM, DL/2, and ROS Methods),					Number treated as Detected				115	
98	Observations < Largest ND are treated as NDs					Single DL Non-Detect Percentage				3.36%	
99											
100	UCL Statistics										
101	Normal Distribution Test with Detected Values Only					Lognormal Distribution Test with Detected Values Only					
102	Lilliefors Test Statistic				0.176	Lilliefors Test Statistic				0.13	
103	5% Lilliefors Critical Value				0.0819	5% Lilliefors Critical Value				0.0819	
104	Data not Normal at 5% Significance Level					Data not Lognormal at 5% Significance Level					
105											
106	Assuming Normal Distribution					Assuming Lognormal Distribution					

A	B	C	D	E	F	G	H	I	J	K	L
107	DL/2 Substitution Method					DL/2 Substitution Method					
108	Mean				226.7	Mean				4.83	
109	SD				227.3	SD				1.329	
110	95% DL/2 (t) UCL				261.3	95% H-Stat (DL/2) UCL				413.8	
111											
112	Maximum Likelihood Estimate(MLE) Method					Log ROS Method					
113	Mean				222.6	Mean in Log Scale				4.851	
114	SD				232.2	SD in Log Scale				1.274	
115	95% MLE (t) UCL				257.9	Mean in Original Scale				226.8	
116	95% MLE (Tiku) UCL				256	SD in Original Scale				227.2	
117						95% t UCL				261.4	
118						95% Percentile Bootstrap UCL				263.1	
119						95% BCA Bootstrap UCL				264.7	
120						95% H UCL				385.7	
121											
122	Gamma Distribution Test with Detected Values Only					Data Distribution Test with Detected Values Only					
123	k star (bias corrected)				1.034	Data appear Gamma Distributed at 5% Significance Level					
124	Theta Star				222.9						
125	nu star				242						
126											
127	A-D Test Statistic				0.369	Nonparametric Statistics					
128	5% A-D Critical Value				0.782	Kaplan-Meier (KM) Method					
129	K-S Test Statistic				0.782	Mean				226.8	
130	5% K-S Critical Value				0.0875	SD				226.3	
131	Data appear Gamma Distributed at 5% Significance Level					SE of Mean				20.83	
132						95% KM (t) UCL				261.3	
133	Assuming Gamma Distribution					95% KM (z) UCL				261	
134	Gamma ROS Statistics using Extrapolated Data					95% KM (jackknife) UCL				261.3	
135	Minimum				0.000001	95% KM (bootstrap t) UCL				268.4	
136	Maximum				1500	95% KM (BCA) UCL				261.4	
137	Mean				226.7	95% KM (Percentile Bootstrap) UCL				261.9	
138	Median				160	95% KM (Chebyshev) UCL				317.6	
139	SD				227.3	97.5% KM (Chebyshev) UCL				356.9	
140	k star				0.704	99% KM (Chebyshev) UCL				434	
141	Theta star				322						
142	Nu star				167.5	Potential UCLs to Use					
143	AppChi2				138.6	95% KM (Chebyshev) UCL				317.6	
144	95% Gamma Approximate UCL (Use when n >= 40)				274						
145	95% Adjusted Gamma UCL (Use when n < 40)				274.7						
146	Note: DL/2 is not a recommended method.										
147											
148	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.										
149	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).										
150	For additional insight, the user may want to consult a statistician.										
151											
152											
153	SB Arsenic										
154											
155	General Statistics										
156	Number of Valid Data				199	Number of Detected Data				187	
157	Number of Distinct Detected Data				121	Number of Non-Detect Data				12	
158						Percent Non-Detects				6.03%	
159											

A	B	C	D	E	F	G	H	I	J	K	L
160	Raw Statistics					Log-transformed Statistics					
161	Minimum Detected				1.1	Minimum Detected				0.0953	
162	Maximum Detected				850	Maximum Detected				6.745	
163	Mean of Detected				62.3	Mean of Detected				3.229	
164	SD of Detected				112.6	SD of Detected				1.361	
165	Minimum Non-Detect				0.97	Minimum Non-Detect				-0.0305	
166	Maximum Non-Detect				5.7	Maximum Non-Detect				1.74	
167											
168	Note: Data have multiple DLs - Use of KM Method is recommended					Number treated as Non-Detect				41	
169	For all methods (except KM, DL/2, and ROS Methods),					Number treated as Detected				158	
170	Observations < Largest ND are treated as NDs					Single DL Non-Detect Percentage				20.60%	
171											
172	UCL Statistics										
173	Normal Distribution Test with Detected Values Only					Lognormal Distribution Test with Detected Values Only					
174	Lilliefors Test Statistic				0.293	Lilliefors Test Statistic				0.0552	
175	5% Lilliefors Critical Value				0.0648	5% Lilliefors Critical Value				0.0648	
176	Data not Normal at 5% Significance Level					Data appear Lognormal at 5% Significance Level					
177											
178	Assuming Normal Distribution					Assuming Lognormal Distribution					
179	DL/2 Substitution Method					DL/2 Substitution Method					
180	Mean			58.64	Mean			3.054			
181	SD			110.1	SD			1.497			
182	95% DL/2 (t) UCL				71.53	95% H-Stat (DL/2) UCL				86.35	
183											
184	Maximum Likelihood Estimate(MLE) Method					Log ROS Method					
185	Mean			40.56	Mean in Log Scale			3.062			
186	SD			127.9	SD in Log Scale			1.481			
187	95% MLE (t) UCL				55.54	Mean in Original Scale				58.65	
188	95% MLE (Tiku) UCL				55.27	SD in Original Scale				110.1	
189						95% t UCL				71.54	
190						95% Percentile Bootstrap UCL				71.61	
191						95% BCA Bootstrap UCL				75.25	
192						95% H UCL				84.59	
193											
194	Gamma Distribution Test with Detected Values Only					Data Distribution Test with Detected Values Only					
195	k star (bias corrected)				0.666	Data appear Lognormal at 5% Significance Level					
196	Theta Star				93.54						
197	nu star				249.1						
198											
199	A-D Test Statistic				3.837	Nonparametric Statistics					
200	5% A-D Critical Value				0.804	Kaplan-Meier (KM) Method					
201	K-S Test Statistic				0.804	Mean				58.66	
202	5% K-S Critical Value				0.07	SD				109.8	
203	Data not Gamma Distributed at 5% Significance Level					SE of Mean				7.803	
204						95% KM (t) UCL				71.55	
205	Assuming Gamma Distribution					95% KM (z) UCL				71.49	
206	Gamma ROS Statistics using Extrapolated Data					95% KM (jackknife) UCL				71.54	
207	Minimum			0.000001	95% KM (bootstrap t) UCL			75.74			
208	Maximum			850	95% KM (BCA) UCL			72.89			
209	Mean			58.54	95% KM (Percentile Bootstrap) UCL			72.32			
210	Median			22	95% KM (Chebyshev) UCL			92.67			
211	SD			110.1	97.5% KM (Chebyshev) UCL			107.4			
212	k star			0.356	99% KM (Chebyshev) UCL			136.3			

	A	B	C	D	E	F	G	H	I	J	K	L
266	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
267	k star (bias corrected)					0.399	Data do not follow a Discernable Distribution (0.05)					
268	Theta Star					1456						
269	nu star					153						
270												
271	A-D Test Statistic					5.481	Nonparametric Statistics					
272	5% A-D Critical Value					0.845	Kaplan-Meier (KM) Method					
273	K-S Test Statistic					0.845	Mean					574.3
274	5% K-S Critical Value					0.0704	SD					1528
275	Data not Gamma Distributed at 5% Significance Level						SE of Mean					110
276							95% KM (t) UCL					756.1
277	Assuming Gamma Distribution						95% KM (z) UCL					755.2
278	Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL					756.1
279	Minimum					0.000001	95% KM (bootstrap t) UCL					888.1
280	Maximum					17000	95% KM (BCA) UCL					780.2
281	Mean					574.3	95% KM (Percentile Bootstrap) UCL					778.8
282	Median					94.5	95% KM (Chebyshev) UCL					1054
283	SD					1532	97.5% KM (Chebyshev) UCL					1261
284	k star					0.365	99% KM (Chebyshev) UCL					1669
285	Theta star					1576						
286	Nu star					141.4	Potential UCLs to Use					
287	AppChi2					114.9	97.5% KM (Chebyshev) UCL					1261
288	95% Gamma Approximate UCL (Use when n >= 40)					706.6						
289	95% Adjusted Gamma UCL (Use when n < 40)					707.7						
290	Note: DL/2 is not a recommended method.											
291												
292	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
293	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
294	For additional insight, the user may want to consult a statistician.											
295												

Appendix F

Projected Schedule and Milestones

Appendix F - Project Schedule

ID	Task Name	2012				2013				2014				2015				2016				2017							
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
1	Submittal of VRP Application				◆	Submittal of VRP Application																							
2	Approval of VRP Application				◆	Approval of VRP Application																							
3	Groundwater Monitoring					◆					◆																		
6	Annual Status Report								◆								◆												
9	Submittal of Revised CSM / Cost Estimate (If Necessary)																◆												
10	Final CSR / Site Closure																												◆

Colonial Terminals, Plant #2 VRP Application November 2012	Milestone	◆	Project Start	—————	Project Completion
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APPENDIX C
Westside Flood
Relief Project
Construction CSR
(United, 2006) –
Electronic only

**Construction
Compliance Status Report**

On The

**City of Savannah
Westside Flood Relief Project
Outfall Line Utility Easement
North Lathrop Road
Savannah, Chatham County, Georgia
Project No. 2003.1146.01**

Prepared For:

**The City of Savannah
Stormwater Management Department
Post Office Box 1027
Savannah, Georgia 31402**

Delivered to:

**Ms. Alexandra Cleary
Hazardous Site Response Program
Environmental Protection Division
Floyd Towers East, Suite 1462
2 Martin Luther King, Jr. Drive SE
Atlanta, Georgia 30334**

Prepared by:

**United Consulting
625 Holcomb Bridge Road
Norcross, Georgia 30071**

May 8, 2006

<h:/geoenviron/reports/2003/2003.1146/2003.1146.01.completion.rept.final>



UNITED CONSULTING



We're here for you

UNITED CONSULTING

June 6, 2006

Mr. Tim Doyle
The City of Savannah
P.O. Box 1027
Savannah, Georgia 31401

RE: Construction Compliance Status Report - Westside Flood Relief
Outfall Line Utility Easement Soil Remediation
North Lathrop Avenue
Savannah, Chatham County, Georgia
Project No. 2003.1146.01

Dear Mr. Doyle:

United Consulting has completed the Construction Compliance Status Report for the above-referenced Site. This document has been prepared to document the activities performed on the Colonial Oil Industries, Inc property that is listed on the Hazardous Site Inventory pursuant to the Georgia Hazardous Site Response Act. The report documents that the City of Savannah has implemented the remedial action as set forth in the March 11, 2002, Construction/Corrective Action Plan, revised by letters dated May 20, 2002, and June 18, 2002, approved in writing by the Environmental Protection Division on June 28, 2002.

This CCSR is submitted in connection with the construction activities associated with the construction of the Westside Relief Project Outfall Line Utility Easement, which consists of a 1,207 foot long by 50-27-foot wide utility easement crossing property owned by Savannah Steel Terminals, LLC and Colonial Oil Industries, Inc (Colonial Terminals HSI No. 10098).

We have prepared five copies for distribution. Four of the copies are for your use. Please note that your signature is needed within the document on page 3. One signed copy should be delivered or mailed return receipt to the EPD.

We appreciate the opportunity to assist you with this project. Please contact us if you have any questions or if we can be of further assistance.

Sincerely,

UNITED CONSULTING


Ian G. Pilling
Senior Environmental Specialist


John F. Clerici, P.E.
Chief Environmental Consultant

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APPENDICES

Appendix A	Property Tax Map
Appendix B	United Consulting Boring Logs
Appendix C	Pre Construction Assessment Analytical Testing Data
Appendix D	Excavation Verification Analytical Testing Data
Appendix E	General Investigation Procedures
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STATEMENT OF FINDINGS

Requirement

The City of Savannah has constructed the Westside Storm Water Outfall within a permanent easement that crosses property owned by the Savannah Steel Terminals, LLC and Colonial Oil Industries, Inc. The Colonial Oil Industries, Inc property is listed on the Hazardous Site Inventory (HSI), as Colonial Terminals HSI No. 10098. The property is located between North Lathrop Avenue and the Savannah River, in Savannah, Georgia. This easement is herein referenced to as the Site. The City of Savannah is submitting this Construction Compliance Status Report (CCSR), as required in the Hazardous Site Response Program (HSRP) Rules¹, in section 391-3-19-.06(3)(b)(10), following is a concise statement of the findings of this CCSR.

Background

This report is for the Westside Flood Relief Project Storm Water Outfall Line Utility Easement, which consists of a 1,207-foot long utility easement that varied in width from 27 to 50 feet, crossing property owned by the Savannah Steel Terminals, LLC and Colonial Terminals (Colonial Terminals HSI No. 10098), herein referred to as the Site. The entire property owned by Colonial is referred to as the HSI Site. The Site is located on the northeastern side of North Lathrop Avenue in Savannah, Chatham County, Georgia. A Construction Corrective Action Plan (CCAP) dated March 11, 2002, was previously submitted by EMC Engineering Services, Inc. (EMC) to the Environmental Protection Division (EPD). The March 11, 2002 CCAP was amended by an addendum letter dated May 20, 2002, and an additional letter dated June 18, 2002. The amended CCAP was approved by the EPD on June 28, 2002. The CCAP, as amended, has now been implemented, and the implementation activities are summarized herein, along with certification of compliance with the applicable risk reduction standards (RRS) under Hazardous Site Response Act (HSRA) for the constituents or chemical of concern (COC) in the soil.

Investigations

Numerous subsurface investigations have been conducted at the Site by EMC, United Consulting and others. The results of these investigations were used to prepare and implement the CCAP, as approved by the EPD. The extent of the soil impacts at the Site have been assessed through various sampling programs, as summarized herein. The CCAP initially identified soil remedial actions based on Type 3 or Type 4 RRS, but subsequent requirements by the EPD were for all soil actions to meet Type 3 RRS.

Soil impacts were identified for 14 metals with concentrations greater than the Type 3 RRS within the construction easement. Soils within the easement were divided into three categories based on the concentrations of the identified COCs and toxicity characteristic leaching procedure (TCLP) data. Soils removed from the excavation area were either:

1. Excavated and hauled directly to an off-site landfill for disposal,

¹ Rules of the Georgia Department of Natural Resources, Environmental Protection Division, Chapter 391-3-19, Hazardous Site Response, hereafter referred to as the Rules.



2. Treated on-site to limit metal leaching, per the CCAP, and then transported to an off-site landfill for disposal, or
3. Stockpiled on-site for use as backfill.

Soils used as backfill on-site did not have COCs exceeding Type 3 RRS. However, limited soils at the Site were found to contain concentrations of metals below the acceptable RRS and also be suitable for engineering backfill at the Site. Soils that were found to contain concentrations of metals below the applicable RRS, but were not suitable as engineering backfill were also transported to an off-site landfill for disposal.

Groundwater sampling was conducted at the Site by EMC. Groundwater samples were collected and submitted for analysis of pesticides, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals. No VOC, SVOC, or pesticide constituents of analysis were detected in the groundwater samples submitted for analysis by EMC. Initial sampling indicated the presence of several metals in the groundwater at concentrations just above the Rules Table 1 Appendix. Re-sampling indicated the presence of only zinc above the Rules Table 1 Appendix. Another round of sampling was conducted and indicated several metals in the groundwater at concentrations just above the Rules Table 1 Appendix. However, analysis of dissolved samples from the same sampling event indicated only copper, nickel and zinc in the groundwater at concentrations above the Rules Table 1 Appendix. The groundwater investigations conducted by EMC found the average pH of the groundwater at the Site was 3.4 standard units (SU) and, therefore, the groundwater extracted from the aquifer needed to be adjusted prior to being discharged. Based on conversations between City of Savannah representatives and the EPD Storm Water Unit, once adjusted, the groundwater could be discharged into the City of Savannah's Sanitary Sewer System. Therefore, the groundwater that was removed from the excavation during construction was stored in an on site tank, treated to adjust the pH, and then discharged into the City of Savannah's Sanitary Sewer System.

Risk Reduction Standards and Site Compliance

Type 3 RRS were adopted for the soil within the easement at the Site. Soil impacts at the Site included the metals: arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc. These metals were identified within the construction easement at the Site. Lead and arsenic were found to be the most common metals and at the highest concentrations, so remedial actions were primarily based on their presence, since no other metals were found without one of these at high concentrations. The areas of soil impacts within the construction easement in excess of the applicable RRS were excavated and disposed in accordance with the procedures outlined in the CCAP, as amended.

Groundwater Scientist Statement

I certify that I am a qualified groundwater scientist who has a post-graduate degree in engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this Construction Compliance Status Report



contaminant fate and transport. I further certify that this Construction Compliance Status Report for the City of Savannah was prepared by myself and appropriate qualified subordinates working under my direction.

Based on my knowledge and belief, I, John F. Clerici, a Professional Engineer in the State of Georgia, License Number 11682, hereby certifies that the City of Savannah Westside Stormwater Outfall construction has been carried out in full compliance with the approved Corrective Action Plan.

UNITED CONSULTING

Name: John F. Clerici, P.E.

Signature: *John F. Clerici*

Date: June 6 2006



Certification of Compliance

I certify under penalty of law that this report and all attachments were prepared under my direction in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Based on my review of the findings of this report with respect to the soil risk reduction standards (RRSs) of the Rules for Hazardous Site Response, Rule 391-3-19-.07, I have determined that the soil at this site is in compliance with the Type 3 Residential Risk Reduction Standards.

Name: Tim J. Doyle, P.E.

Signature: _____

Title Senior Civil Engineer

The City of Savannah



INTRODUCTION

Site Description

The Site consists of an approximate 1,207-foot long easement with widths varying from 27 to 50 feet. The land was undeveloped cleared land located to the northeast of North Lathrop Avenue. More specifically the site is located approximately 1,250 feet east of the intersection of North Lathrop Avenue and West Lathrop Avenue, Chatham County, Georgia. A copy of the easement survey and tax map for the easements is included in Appendix A. The location of the Site is illustrated on Figure 1. The area topography is illustrated on the United States Geologic Survey (USGS) 7.5-minute quadrangle map that is provided as Figure 2.

The City of Savannah acquired a permanent easement from Colonial Oil Industries, Inc. (Colonial) and Savannah Steel Terminals, LLC (Steel Terminals). Within this easement the City of Savannah constructed a cast in place double, eight-foot by seven-foot (8' x 7') box culvert and a 90' x 24' cast in place concrete terminal structure,

Facility Background

Little is known about the historical background of the Site. However, it is thought that impacted soils were brought in as fill soils and were placed along the river in the past in order to make the river more accessible. The Site crosses property currently owned by Savannah Steel Terminals, LLC and Colonial Oil Industries, Inc. (Colonial Terminals HSI No. 10098).

SOURCE DESCRIPTION

Elevated concentrations of fourteen heavy metals have been identified on the Site, including: arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium and zinc. These COC were detected in soils within the proposed excavation area at the Site. The areas of these detections were randomly located throughout the construction easement and were generally confined to lenses of colored fill soils, the highest impacts were found to be associated with soils that appeared to be dark purple. The source of these constituents is unknown, but was likely within the fill materials when placed at the Site.

SUBSURFACE INVESTIGATIONS

Several subsurface investigations have been conducted at the Site. ATEC Associates, Inc. (ATEC) completed a subsurface exploration and geotechnical evaluation of the Site in 1995 and 1996. Soil samples were not submitted for analytical testing during these investigations.

EMC drilled two shallow hand auger borings along the storm water easement in December 1995. The borings were designated B-24 and B-23 and were located near stations 17+98 and 21+39. Soil samples were collected from the borings and submitted for analysis of priority pollutants,



volatile VOCs and SVOCs, RCRA metals, and TCLP metals. Analytical results indicated regulated metals above the HSRP Notification Concentrations (NCs) requiring notification of these conditions to the HSRP for potential listing on the HSI.

EMC returned to the site and conducted soil and groundwater sampling in March and April 2000. Four hollow stem auger borings were drilled along the centerline of the storm water easement. One temporary monitoring well designated (GW-1) was also installed at station 15+00. The borings were designated SB12+00, SB15+00, SB18+00, and SB21+00 based on their locations relative to the proposed storm sewer station numbers. The borings were drilled to depths ranging from 15.5 feet to 18 feet below the ground surface (bgs). Between one and four soil samples were collected from each boring and submitted for analysis of hazardous waste characteristics of ignitability, TCLP lead toxicity, cyanide, and sulfide reactivity. Analytical results indicated TCLP for lead exceeded the HSRP NCs of 5.0 mg/L in one sample. Groundwater samples were collected from the monitoring well GW-01 on three occasions and submitted for analysis of total and dissolved metals, pesticides, VOCs, SVOCs, and cyanide. Analytical results indicated various metals above the Rules Table 1 Appendix for the respective metals.

EMC installed an additional three hollow stem auger borings and one hand auger boring along the centerline of the utility easement in August 2000. The borings were designated SB13+50, SB16+50, SB19+50, and SB22+50 (hand auger), again based on their locations relative to the station numbers. The borings were drilled to depths ranging from 4 to 18 feet bgs. Between one and four soil samples were collected from each boring and submitted for analysis of hazardous waste characteristics of ignitability, TCLP lead toxicity, cyanide, and sulfide reactivity. Analytical results indicated TCLP for lead exceeded the HSRP NCs of 5.0 mg/L in one sample.

United Consulting was retained by the City of Savannah to perform a Subsurface Soil Assessment that had been devised by the City of Savannah. This assessment included conducting 28 soil borings at 50-foot intervals along the centerline of the proposed sewer easement, as shown on Figure 3. Soil samples were collected at two-foot intervals from within each of these borings. Soils were characterized, as indicated on the logs in Appendix B. The soil samples collected for testing were forwarded to an independent analytical laboratory and analyzed for total metals for the fourteen metals previously identified as COC, which included; antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, nickel, silver, selenium, thallium, and zinc. Additionally, the samples were analyzed for arsenic and lead using the TCLP. Analytical results from this investigation identified areas along the storm water easement where the total concentrations of metals in the soil exceeded the Type 3 RRS approved by HSRP, and herein referenced as Type I soils. Additionally, analytical results from identified areas along the storm water easement where soil exceeded the RCRA TCLP standard for lead (but not arsenic), referenced as Type II soils. Type III soils were those without COC at concentrations requiring any remedial actions. Based on the CCAP the soils could be used as backfill on the site if proven to meet the Type III criteria. However, the Type III soils that were not to be used on the site as backfill because of poor engineering characteristics, and were to be transported off of the Site were also to be sent to a landfill for disposal. The results from this sampling event were used to construct an Initial Soil Excavation Subsurface Profile that was to be utilized to help direct disposal and treatment during the excavation activities of the project. Copies of these profiles are attached as Figures 4 and 5. A summary of the analytical test results is provided in Table 1.



Analytical test results used in this construction that were not previously provided in the CCAP are included in Appendix C.

Sampling and Analysis Procedures/QA/QC

During the assessments conducted by United Consulting, samples were collected for analytical testing based on the sampling plan that had previously been established by the City of Savannah and others. Quality control (QC) procedures included cleaning, Chain-of-Custody maintenance, and the use of laboratory blank samples. The drilling rigs were cleaned prior to entering the Site. The sampling tools were washed with an Alconox/water solution between sampling locations. This cleaning was performed to reduce the potential for contaminating samples due to the drilling/sampling processes. Chain of Custody of the samples was maintained and documented. Chain of custody forms were initiated in the laboratory with the sample containers and custody was passed from individual to individual to maintain control of the materials. As the custody of the samples passed from individuals, this was documented on the Chain of Custody forms. The chain of custody forms are reproduced in Appendix C for the pre-construction testing and Appendix D for the verification testing, along with the associated laboratory analyses data. Further details on the procedures used in this investigation are discussed below. General standard operation procedures for investigations are included in Appendix E.

The soil samples were submitted for analytical testing of total metals for the fourteen metals of concern by EPA testing methods 6010B except for mercury, which was analyzed by EPA testing method 7471A. The soil samples were also submitted for TCLP analysis of arsenic and lead by EPA testing methods 1311/6010B. All samples collected by United Consulting were submitted for analytical testing of these constituent lists by these EPA testing/sampling methods, unless otherwise noted in this report.

CHEMICALS IDENTIFIED

Chemical releases have been detected at the Site in soil. The chemicals identified were the metals: antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, nickel, silver, selenium, thallium and zinc. These are the COC for the excavation activities during this project and the Site.

SOIL IMPACT EXTENT

Overview

COC in the soil within the construction easement at the Site, as described above, consisted of: antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, nickel, silver, selenium, thallium and zinc as well as lead above the RCRA TCLP standard. The initial soil distribution of the Type I, Type II and Type III soils prior to construction are illustrated on Figures 4, and 5. The actual soil excavation profile of the Type I, Type II and Type III soils are illustrated on Figures 6, and 7.



Extent

A preliminary extent of the metals impacts within the construction easement was determined both laterally and vertically based on soil data from the 28 borings conducted along the centerline of the easement. Based on the large scale of the project some generalizations were made when initially estimating the extent of the impacts in between borings as well as to the sides of the borings. This information was used to construct Figures 4 and 5, which indicated how the excavated soils were to be treated. Figures 4, and 5 show the initial estimated extent of the Type I, Type II and Type III soils. During the course of the excavation these areas were further delineated through visual observation and additional verification sampling. The actual soil excavation profile is illustrated on Figures 6 and 7.

GROUNDWATER

Overview

Groundwater sampling was conducted at the Site by EMC. Groundwater samples were collected and submitted for analysis of pesticides, VOCs, SVOCs, and metals. No VOC, SVOC or pesticide constituents of analysis were detected in the groundwater samples submitted for analysis by EMC. Initial sampling indicated the presence of several metals in the groundwater at concentrations just above the Rules Table 1 Appendix. Re-sampling indicated the presence of only zinc at concentrations above the Rules Table 1 Appendix. Another round of sampling indicated several metals in the groundwater at concentrations just above the Rules Table 1 Appendix. However, analysis for dissolved metals from the same sampling event indicted only copper, nickel and zinc in the groundwater at concentrations above the Rules Table 1 Appendix. The groundwater investigations conducted by EMC found the average pH of the groundwater at the site was 3.4 SU and, therefore, extracted groundwater needed to have the pH adjusted prior to discharged. Groundwater depths in the monitoring wells installed by EMC at the Site varied from about 8.9 to 9.4 feet below the existing grades.

Geologic and Hydrogeologic Setting

The topography, geology and hydrogeology commonly control the migration of chemicals released at a site/facility. The relative location of the properties will often define their potential interaction and hydraulic connection. The description of the setting for the Site is provided below, starting with the topography and geology.

The Site was located in Chatham County in the Atlantic Coastal Plain Physiographic Province of Georgia. This area is characterized by gentle east, southeast dipping mostly unconsolidated marine sediments. Topography in the province is variable and ranges from low to moderate hills in the west, northwest to nearly flat in the east, southeast. Based on the United States Geological Survey (USGS) 7.5-minute topographic quadrangle map of the area entitled Savannah, Georgia-south Carolina 1978, elevations in the vicinity of the Site range from approximately 3 meters (m) or 10 feet (ft) above mean sea level (msl) to approximately 5 m or 16 ft msl. The Site was located in a relatively flat area with an approximate elevation of 3 m 10 ft msl. Topography at



the Site generally slopes down to the northeast. Surface water flow at the Site and immediate vicinity generally flows northeast towards the Savannah River located along the northern side of the Site. Figure 2 shows the topography of the Site and surrounding areas.

The mostly unconsolidated sediments comprising the Atlantic Coastal Plain consist primarily of Quaternary- to Cretaceous-aged marine deposits laid down during succeeding sea level transgressions. These deposits dip gently to the east and southeast towards Atlantic Ocean. The marine sediments are overlain along wider stream channels by Quaternary-aged alluvial and fluvial deposits. According to the *Geologic Map of Georgia*, the Site, and immediately surrounding areas are underlain by the Pamlico Shoreline Complex.

Groundwater depths in the monitoring well installed by EMC at the Site varied during different sampling periods from about 8.9 to 9.4 feet below the existing grades. Generally, the groundwater at the Site flows to the northeast towards the Savannah River. The major significance of the relatively shallow groundwater table was that during construction, the excavation extended several feet below the groundwater table, which made the excavation a local dewatering well.

Groundwater Quality

A consequence of the shallow groundwater was that the groundwater had to be removed during construction. The area groundwater was tested by EMC prior to initiating any construction on the Site. In general, the groundwater was found to contain several metals constituents, but the main concern for discharging the water was its pH. The testing performed for the CCAP identified that the pH of the groundwater was about 3.4 SU. Consequently, it was decided that the groundwater would be buffered prior to discharge to the City system.

RISK REDUCTION STANDARDS

The City of Savannah agreed to the removal and disposal of all soils within the construction easement that exceeded the approved Type 3 RRS for COC. These COC were metals that included: antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, nickel, silver, selenium, thallium, and zinc. The Type 3 RRS were calculated or developed by EMC in conjunction with representatives from the EPD. The Type 3 RRS approved by the EPD for soil treatment or removal from the Site is listed in Table 1, at the end of the report.

CORRECTIVE ACTION

Overview

Investigations have substantially defined the impacts of COC to the soil at the Site, as described above. The extent of the metals in soil at concentrations in excess of the Type 3 RRS, as well as soils that had concentrations which exceeded the RCRA TCLP standard for lead of 5.0 mg/L. The soils at this Site were defined for usage as Type I, Type II and/or Type III soils. Type I soil



was defined as those soils that contain metals at concentrations above the Type 3 RRS and do not exceed the RCRA TCLP standard for lead and/or arsenic. Type II soils were defined as soils with metal concentrations that exceed the RCRA TCLP standard for lead and/or arsenic. Type III soils were those soils that did not contain the 14 metals at concentrations above Type 3 RRS or lead and arsenic above the RCRA TCLP standard. Soils were excavated only to the limits that were required for the installation of the storm water outfall system.

Excavation was conducted based on the extent evaluation along with observations made in the field. A United Consulting representative was present during the excavation activities at the Site to observe and document the soil removal by the contractor.

Regulatory Compliance

The soil removal operations for this project were performed in accordance with the CCAP, as amended. Excavation activities were overseen by United Consulting and Winter Construction Company, Inc. (Winter) and were performed by The Industrial Company (TIC). The on-site treatment activities were observed and documented by United Consulting and performed by Winter. The materials removed from the Site were transported by two different transport companies, Jenkins Hauling and Crawford Trucking, both were experienced, trained, and licensed waste haulers. Manifests were prepared documenting the removal and disposal of the materials. All excavation, handling, containerization, transport, storage, and disposal activities were performed by methods that:

- Prevented contamination of the surrounding environment (soil, water, air);
- Were in accordance with applicable federal, state and local regulation and laws; and
- Protected personnel in the work area and adjacent to the work area.

The work was performed in compliance with applicable United States Occupational Safety and Health Administration (OSHA) regulations, and in accordance with the project specific Health and Safety Plan (HASP).

Health and Safety

Work was performed in accordance with OSHA requirements, as provided for in Title 29 of the Code of Federal Regulations, part 1910.120 (29 CFR 1910.120), for hazardous waste work. Winter Environmental prepared the Health and Safety Plan and United Consulting reviewed and approved the plan. TIC and Winter both relied on the Health and Safety plan prepared by Winter. A copy of this HASP is included in Appendix F. United Consulting's health and safety plan is also provided in Appendix F.

Soil Excavation and Disposal

General

Corrective action for the Site was conducted in two ways depending on the type of soils involved. Type 1 soils encountered in the excavation area were excavated and disposed of at an



off-site landfill. Type 2 soils were removed from the excavation area and stockpiled into one of the on site treatment areas or bins where the soils were treated, following treatment the soils samples were tested and if they were found to meet the disposal criteria were disposed of at an off site landfill. Soils that were not impacted with the COC were either stockpiled on site for future use as backfill or, if the soils were not suitable from an engineering perspective these soils were disposed of at an off-site landfill. Soil excavation operations were managed by TIC, while the soil transportation and disposal operations were managed by Winter. The corrective actions were observed and documented by United Consulting.

Backfilling of the remediation excavations was accomplished using clean soils from off-site sources or soils from areas of the site that had been demonstrated, through characterization sampling, to be in compliance with Type 3 RRS for the metals of concern. Some of the on-site soils used for the backfill operations were from the excavation pit. However, due to the poor engineering characteristics of the majority of the soils, only 167 tons of the soils that were not impacted could be re-used as backfill. Therefore, the majority of the soils used as backfill soils consisted of soils brought in from off-site sources.

Borrow Soils

Off-site fill soils that were brought on site were demonstrated through characterization sampling to be in compliance with the Type 3 RRS for the metals of concern at the Site. Sampling included collecting four samples from the borrow area known as the Clearview Stock Pile (Clearview). The four soils samples collected from Clearview were submitted for analysis of RCRA metals including mercury. Analytical results from the Clearview Pit did indicate a few metals were detected at concentrations thought to be indicative of background concentrations for the area. Additionally, one composite sample was collected by a representative of TIC from another borrow area, referred to as the Laynard Development Pit (Laynard). The composite soil sample collected from the Laynard Pit was submitted for analysis of priority pollutants and RCRA metals. Analytical results from the Laynard Pit did not indicate the presence of priority pollutants of the constituents of analysis above the laboratory detection limit. A few metals were detected at concentrations believed to be indicative of background concentrations for the area. Analytical test results from the borrow soils are presented in Appendix G.

Excavation

Initial excavation activities at the Site began February 22, 2005. Excavation was completed at the Site on January 24, 2006. The total amount of soils excavated and removed from the Site according to Winters disposal manifests and Waste Managements Invoicing included 23,152 tons² of Type I soils, 11,977 tons of Type II soils and 13,280 tons of non-impacted unsuitable Type III soil. The total amount of soil removed from the excavation and placed back at the site, as backfill was approximately 167 tons. A summary of the Disposal manifests along with Waste Managements invoice summary is included in Appendix J.

The initial assessment data, shown in the profiles on Figures 4 and 5, were used as a guide to begin the excavation activities at the Site. Through the course of the initial investigations and

² Material weights are in English units, Tons, equivalent to 2,000 pounds.



verified during the initial stages of the excavation through sampling, soils that contained the highest metal impacts and required on-site treatment were found to be darker soils with a reddish purple color. This visual marker was consistent and reliable. Therefore, excavations were conducted using the profiles on Figures 4 and 5, supported with select sampling and testing, along with visual observations of the soil characteristics to properly identify the soil type for treatment and usage. As a rule, the excavations were conducted using an overly cautious approach, with classification for disposal and/or treatment and disposal where any question arose. As an example, if an area was shown to be Type I or non-impacted on the figures, but showed visual indicators in the field consistent with Type II soils, these soils were managed as Type II soil. However, if an area where Type II soils were identified on the map did not show visual indications of being a Type II soils, these soils were still handled as Type II soils. Thus, the soils were managed, as they were the most impacted, if ANY of the data or indicators suggested that. The actual excavation and disposal of the soils at the Site is shown on Figures 6 and 7.

A total of 10 verification samples were obtained during the initial excavation process in order to verify that the visual coloring indicated impacted soils. The area of excavation, as initially stated, was the limits for the trench for storm water outfall construction. The limits are shown on the profiles on Figures 4 and 5. Photographs of the excavation are included in Appendix H.

Soil Treatment

Soil treatment was performed by Winter. Initially, Winter performed a treatability study dated March 26, 2004 that showed that the soils could be treated efficiently using a proposed mixture presented in Appendix I. Based on several factors, including difficulty obtaining components of the ad-mixture, increased costs for the materials, as well as poor treatment results, Winter asked to change the treatment process. Winter decided to use a different chemical mixture for treatment of impacted soils. Therefore, Winter had an additional treatability study performed with results presented in a report dated April 13, 2005, and attached in Appendix I. These treatment results were more consistent, easier to meet, and less expensive than the first mixture provided. This mixture utilized a different admixture containing a patented additive known as EnviroBlend®. The results of the treatability study showed good treatment results and provided good treatment results throughout the remainder of the project. Both treatability studies are located as Appendix I.

Winter provided treatment on-site for the soils that potentially could leach lead or arsenic above the RCRA TCLP standard. They used the results of the second treatability study to define the minimum admixture for soils. Winter constructed two bermed pits that were lined with a geomembrane for performing the soil treatment. An additional third pit was constructed for a period of time in order to accommodate the large amount of soil from the excavation. In the pits, they placed the Type II soils, added the chemical, mixed the chemical into the soil, and then obtained verification samples. Once the verification test results showed the soils met the requirements for leaching, the soils were loaded onto trucks and taken to a Subtitle D Municipal Solid Waste Landfill (MSWLF) for disposal. Soils treated and transported to the MSWLF were manifested, the loads weighed, and weigh tickets provided.



Soil Disposal

Soil transportation and disposal operations were managed by Winter. Based on the approved CCAP all soils transported off of the Site were disposed of at an approved Subtitle D MSWLF. Soils were transported to Superior Landfill located at 30001 Little Neck Road in Savannah Georgia. All soils transported off of the Site were disposed of as non-hazardous wastes. A summary of the disposal manifests for the soil disposal is included in Appendix J. Complete copies of the disposal manifests are on file at United Consulting. These records will be maintained by United Consulting for 7 years for inspection by the EPD.

Excavation Inspection – Verification Sampling

Soils

Soils were excavated from within the limits of the construction easement to a depth and width necessary to allow for the construction of the storm water box culverts. Soils were characterized and disposed of based on the initial investigations as well as observations made in the field.

As set forth in United Consulting scope of services, prepared by the City of Savannah, verification samples were initially being collected by United Consulting from every 100 cubic yards (cy) of soils that were treated on the Site by Winter. Winter also collected samples from every batch of treated soil; each batch consisted of approximately 400 cy. However, due to the initial difficulties with the on-site treatment process and the resultant number of samples that were collected by United Consulting, the verification sampling program was altered on April 8, 2005. The altered sample collection procedure included the observation of Winter's sample collection and receipt of their analytical results, as well as collection of a duplicate verification sample from every fifth batch of treated soils.

Based on observations made in the early stages of the excavation, soil samples were collected from suspect soils that were discolored but shown on the initial excavation plans to be below Type 3 RRS. This initial sampling helped devise the excavation strategy that was followed for the remainder of the excavation. This strategy accepted that soils that contained the highest metal impacts and required on-site treatment were darker soils with a reddish purple color. Therefore, the excavations were conducted using both the profiles on Figures 4 and 5, sampling, along with visual observations to properly, or conservatively, identify the soil type for usage and disposal. As stated, the excavations were conducted using an overly cautious approach. For example, if an area was shown on the profiles on Figures 4 and 5 to be Type III or non-impacted, but visual indicators in the field were for Type II soils, then these soils were managed as Type II soils. However, if an area where type two soils were identified on the map did not show visual indications of being a Type II soils these soils were still handled as Type II soils. Soil samples were also collected from the excavated soils that were to be reused backfill. No soils were placed back onto the site without being sampled and verified to be below the applicable Type 3 RRS.

In the pre-construction sampling program, 271 soil samples were obtained for testing to define where the construction would likely encounter impacted soils. The analytical test results indicate some areas of discrepancy along the easement. The discrepancies seem to be confined to the depths at which the soils are impacted. Due to the perceived discrepancies 23 samples were



selected for re-analysis of specific total metals and TCLP. The re-analysis of samples did not change any of the classifications of the soil types as type I, II or III. The analytical results are summarized in Table 2 and the analytical results.

Verification tests were performed on soils excavated and treated. United Consulting collected and tested a total of 10 soil samples from the excavation during the initial stages of the excavation. These test results are summarized in Table 3. Any soil that were found through excavation sampling to be above the approved RRS were treated on site prior to disposal. Additionally, a total of 14 samples of treated soil were collected and tested by United Consulting, Winter collected and tested a total of 13 samples of retreated soils. These test results are provided in Appendix D and summarized in Table 4.

Groundwater

The groundwater entering the excavation trench was removed during construction. Groundwater was pumped using construction pumps into a 25,000-gallon tank where it was batch treated using sodium hydroxide to adjust the water pH. The pH was buffered to between 6.5 and 7.5 SU and then released to the City of Savannah's Sanitary Sewer System. The system was constructed by Winter to automatically monitor the water pH and add sodium hydroxide to adjust the pH. Periodic checks were made on the pH in the tank by United Consulting.

Excavation Monitoring

During the excavation process, a United Consulting representative was on-site to oversee the excavation process. This representative observed the excavation process, prepared notes, and took photographs to document the daily activities at the site. The daily logs are included as Appendix K. Photographs are provided in Appendix H. All monitoring work was performed in compliance with the HASP and the CCAP.

Remedial Action Summary

The City of Savannah is upgrading its storm sewer system. This included Westside Relief Project Outfall Line Utility Easement, which consists of a 1,207 foot long by 27-foot wide utility easement crossing property owned by the Savannah Steel Terminals, LLC and Colonial Oil Industries, Inc (Colonial Terminals HSI No. 10098). Remedial actions were adapted in conjunction with the sewer construction activities. The City of Savannah has implemented the remedial action as set forth in the CCAP, approved by the EPD on June 28, 2002.

Soil excavated for placement of the storm sewer box culverts were assessed for COC presence and the need for removal from the Project Site. Soils designated for removal due to COC concentrations were identified for transport and disposal or treatment and then transport and disposal. Impacts were identified based on the concentrations of the 14 metals, COCs, with concentrations greater than the Type 3 RRS used as the disposal criteria. Soils excavated during construction on the Site were divided into three categories based on the concentrations of the identified COCs and TCLP data. Soils removed from the excavation area were ether:



1. Excavated and hauled directly to an off-site Subtitle D landfill for disposal,
2. Treated on-site to limit metal leaching, per the CCAP, and then transported to an off-site landfill for disposal, or
3. Stockpiled on-site for use as backfill.

Soils used as backfill on-site did not have COCs exceeding Type 3 RRS. As the excavation progressed, any soils considered questionable for disposal were sent to the landfill for disposal. Soils were tested and those exceeding the leachability limits were treated before disposal. Soils were treated in batches. Prior to disposal, batches of soil were tested for compliance with the treatability requirements. All areas used for treatment were removed and/or remediated and the contact materials sent to the landfill for disposal. Within the limits of the excavation, no soils were identified with COC concentrations in excess of the Type 3 RRS.

UNITED CONSULTING



TABLE 1: TYPE 3 SOIL RRS

Metal	Type 3 RRS
Antimony	10
Arsenic	38
Barium	1,000
Beryllium	3
Cadmium	39
Chromium	1,200
Copper	1,500
Lead	400
Mercury	17
Nickel	420
Silver	36
Selenium	10
Thallium	10
Zinc	2,800
All results in mg/kg	

TABLE 2: Pre Construction Soil Sampling Summary

Sample ID	Depth (feet)	TCCLP (mg/L)		TOTAL METALS ANALYSES (mg/kg)													
		Pb	As	Sb	As	Ba	Be	Cd	Cr	Cu	Pb	Hg	Ni	Se	Ag	Tl	Zn
Type 3 RRS		5	5	10	38/41	500	3	39	1200	1500	400	17	420	36	10	10	2,800
9+50.0	0	BRL	BRL	18.2	352	135	BRL	BRL	6.69	181	1540	10.3	6.57	10.1	3.03	BRL	294
9+50.2ft	2	54.5	BRL	45.8	489	60.3	BRL	4.55	2.43	1200	6740	3.05	4.49	15.9	11.4	7.83	2500
9+50.6ft	6	16.7	BRL	67.9	528	102	BRL	8.89	BRL	2780	17300	3.16	13.4	14	21.5	9.47	2870
9+50.8ft	8	38	BRL	60.8	430	179	BRL	6.12	BRL	1370	3900	1.14	6.05	18.3	16.3	6.65	1530
9+50.10ft	10	0.604	BRL	53.4	169	13.7	BRL	BRL	64.1	1380	1380	0.878	BRL	8.07	BRL	BRL	63.1
9+50.12ft	12	27.8	BRL	35.1	263	257	BRL	5.46	BRL	1380	2580	1.1	5.72	13.5	11.1	5.88	1730
9+50.14ft	14	BRL	BRL	BRL	9.15	79.7	BRL	BRL	22.4	19.6	29.1	0.095	9.38	BRL	BRL	BRL	58.1
9+50.16ft	16	BRL	BRL	BRL	BRL	70.9	BRL	BRL	19.9	10.8	10.7	BRL	7.56	BRL	BRL	BRL	40.7
9+50.18ft	18	BRL	BRL	BRL	BRL	51.7	BRL	BRL	14.6	7.59	7.6	BRL	5.46	BRL	BRL	BRL	26.9
9+50.20ft	20	BRL	BRL	BRL	BRL	5.28	BRL	BRL	2.28	BRL	BRL	BRL	BRL	BRL	BRL	BRL	3.99
9+50.22ft	22	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	6.23	BRL	BRL	BRL	BRL	BRL	BRL
10+00.0ft	0	BRL	BRL	BRL	5.34	15.9	BRL	BRL	6.46	7.46	19.9	0.788	5.29	BRL	BRL	BRL	15.1
10+00.2ft	2	BRL	BRL	BRL	BRL	12.8	BRL	BRL	5.02	6.22	36	BRL	BRL	BRL	BRL	BRL	8.09
10+00.4ft	4	BRL	BRL	BRL	BRL	4.59	BRL	BRL	4.97	2.14	5.91	BRL	BRL	BRL	BRL	BRL	BRL
10+00.6ft	6	BRL	BRL	BRL	BRL	BRL	BRL	BRL	3.5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
10+00.8ft	8	BRL	BRL	BRL	BRL	6.55	BRL	BRL	7.12	3.38	6.51	BRL	BRL	BRL	BRL	BRL	8.96
10+00.10	10	BRL	BRL	BRL	BRL	4.27	BRL	BRL	5.19	3.42	12.5	BRL	BRL	BRL	BRL	BRL	7.11
10+00.12ft	12	BRL	BRL	BRL	493	68.1	BRL	BRL	8.52	116	344	1.05	13.7	BRL	BRL	BRL	4360
10+00.14	14	0.284	0.662	BRL	80.3	22.1	BRL	BRL	5.43	133	117	0.452	BRL	BRL	BRL	BRL	269
10+00.16	16	BRL	BRL	5.51	79.7	8.67	BRL	BRL	2.81	16.2	298	0.625	BRL	BRL	BRL	BRL	129
10+00.18	18	0.59	0.476	BRL	104	22	BRL	BRL	5.96	118	161	BRL	3.47	BRL	BRL	BRL	699
10+00.20	20	BRL	BRL	BRL	BRL	12.8	BRL	BRL	5.43	2.88	23.2	BRL	BRL	BRL	BRL	BRL	28.6
10+00.22	22	BRL	BRL	BRL	BRL	10.4	BRL	BRL	4.97	1.95	5.91	BRL	BRL	BRL	BRL	BRL	14.5
10+50.0	0	BRL	BRL	BRL	BRL	23.7	BRL	BRL	7.96	17.2	35.3	0.14	7.36	BRL	BRL	BRL	26.2
10+50.2	2	BRL	BRL	BRL	BRL	4.9	BRL	BRL	4.89	2.18	5.23	BRL	BRL	BRL	BRL	BRL	7.35
10+50.4	4	BRL	BRL	BRL	BRL	9.5	BRL	BRL	7.32	4.07	8.33	BRL	BRL	BRL	BRL	BRL	4.55
10+50.6	6	BRL	BRL	BRL	BRL	4.74	BRL	BRL	5.7	4.27	9.19	BRL	BRL	BRL	BRL	BRL	4.85
10+50.8	8	BRL	BRL	BRL	BRL	5.63	BRL	BRL	7	4.27	4.03	BRL	BRL	BRL	BRL	BRL	BRL
10+50.10ft	10	BRL	BRL	BRL	BRL	5.84	BRL	BRL	5.3	2.21	3.55	BRL	BRL	BRL	BRL	BRL	BRL

Sample ID	Depth (feet)	TCLP (mg/L)		TOTAL METALS ANALYSES (mg/kg)													
		Pb	As	Sb	As	Ba	Be	Cd	Cr	Cu	Pb	Hg	Ni	Se	Ag	Tl	Zn
Type 3 RRS	(feet)	5	5	10	38/41	500	3	39	1200	1500	400	17	420	36	10	10	2,800
12+00.8ft	8*	BRL*	BRL	BRL	18.6	25.5	BRL	BRL	8.34	66.1	197	0.41	BRL	BRL	BRL	BRL	93
12+00.10ft	10	BRL	BRL	BRL	542	25	BRL	BRL	9.07	25.1	9.8	BRL	BRL	BRL	BRL	BRL	46
12+00.12ft	12	BRL	BRL	BRL	9.31	5.64	BRL	BRL	BRL	3.46	7.58	0.175	BRL	BRL	BRL	BRL	19.7
12+00.14ft	14	BRL	BRL	BRL	66.9	11.7	BRL	BRL	4.58	10.8	8.53	BRL	BRL	BRL	BRL	BRL	16.9
12+00.16ft	16	BRL	BRL	BRL	7.45	BRL	BRL	BRL	4.11	BRL	BRL	BRL	BRL	BRL	BRL	BRL	9.7
12+00.18ft	18	0.452	BRL	BRL	62.5	51.1	BRL	BRL	8.47	104	525	1.75	BRL	BRL	BRL	BRL	203
12+00.18	18	0.100									459						
12+00.20ft	20	BRL	BRL	BRL	5.76	BRL	BRL	BRL	BRL	3.89	8.19	BRL	BRL	BRL	BRL	BRL	7.65
SB 12+00	1-3	9.55		37.8	461					1530	6570	67.2					1880
SB 12+00	DUP	25.9		34.2	515					1140	7390	59.6					1690
SB 12+00	3.5-5.5	0.478		<4.87	303					756	290	26					1360
SB 12+00	6-8	63.5		30.4	61.9					43.3	3390	6.18					34.2
12+50.0	0	0.591	BRL	BRL	4.84	66.1	BRL	BRL	6.98	31.7	154	0.507					51.7
12+50.2	2	37.7	BRL	BRL	146	31.9	BRL	BRL	2.75	521	9140	21.8	BRL	BRL	12.9	8.06	10.2
12+50.4	4	40.5	BRL	BRL	9.34	6.58	BRL	BRL	BRL	7.67	551	1.2	BRL	BRL	BRL	BRL	BRL
12+50.6	6	BRL	BRL	BRL	192	26.5	BRL	BRL	7.62	19	14.9	0.718	BRL	BRL	BRL	BRL	17.6
12+50.8	8	BRL	BRL	BRL	BRL	14.4	BRL	BRL	8.41	16.3	6.74	BRL	BRL	BRL	BRL	BRL	19.6
12+50.10	10	BRL	BRL	BRL	17.8	14	BRL	BRL	7.13	18.1	22.8	0.351	BRL	BRL	BRL	BRL	14.2
12+50.12	12	BRL	BRL	BRL	BRL	22.3	BRL	BRL	BRL	2.32	6.93	BRL	BRL	BRL	BRL	BRL	BRL
12+50.14	14	2.4	BRL	BRL	7.5	20.5	BRL	BRL	3.45	15.5	171	0.561	BRL	BRL	BRL	BRL	63.1
12+50.16	16	5.84	BRL	BRL	4.49	11.7	BRL	BRL	1.91	8.4	47.6	BRL	BRL	BRL	BRL	BRL	42
12+50.16	16	2.10									60.6						
12+50.18	18	BRL	BRL	BRL	BRL	7.76	BRL	BRL	2.68	6.39	11	BRL	BRL	BRL	BRL	BRL	36.8
12+50.20	20	BRL	BRL	BRL	BRL	18	BRL	BRL	BRL	2.58	6.27	BRL	BRL	BRL	BRL	BRL	4.89
13+00.0	0	25.7	BRL	89	355	18.9	BRL	BRL	BRL	641	7610	25.2	BRL	BRL	15.3	20.2	22.6
13+00.2	2	184	BRL	BRL	258	33.3	BRL	BRL	BRL	132	4170	0.485	BRL	BRL	9.92	2.16	8.08
13+00.4	4	64.9	BRL	12.6	232	34.1	BRL	BRL	BRL	172	12400	13.7	BRL	BRL	7.25	2.9	BRL
13+00.6	6	26	BRL	5.95	140	43.1	BRL	BRL	2.8	191	3850	4.52	BRL	BRL	BRL	2.29	BRL
13+00.8	8	BRL	BRL	BRL	BRL	12.1	BRL	BRL	3.64	26.5	13.5	BRL	BRL	BRL	BRL	BRL	BRL
13+00.10	10	11.3	BRL	BRL	6.25	30.4	BRL	BRL	4.43	33.7	329	0.705	BRL	BRL	BRL	BRL	BRL
13+00.12	12	BRL	BRL	BRL	BRL	8.96	BRL	BRL	BRL	3.05	BRL	0.473	BRL	BRL	BRL	BRL	BRL

Sample ID	TCLP (mg/L)		TOTAL METALS ANALYSES (mg/kg)													
	Pb	As	Sb	As	Ba	Be	Cd	Cr	Cu	Pb	Hg	Ni	Se	Ag	Tl	Zn
Type 3 RRS	5	5	10	38/41	500	3	39	1200	1500	400	17	420	36	10	10	2,800
15+50.10	BRL	BRL	BRL	BRL	20.2	BRL	BRL	9.15	15.1	7.64	BRL	BRL	BRL	BRL	BRL	10.5
15+50.12	BRL	BRL	BRL	BRL	17	BRL	BRL	6.93	18	9.42	BRL	BRL	BRL	BRL	BRL	17.1
15+50.14	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	4.47	BRL	BRL	BRL	BRL	BRL	BRL	BRL
15+50.16	0.146	BRL	BRL	BRL	BRL	BRL	BRL	2.27	5.07	BRL	BRL	BRL	BRL	BRL	BRL	5.1
15+50.18	BRL	BRL	BRL	BRL	4.66	BRL	BRL	2.3	3.8	BRL	BRL	BRL	BRL	BRL	BRL	BRL
16+00.0	BRL	BRL	10.2	30.8	89.7	BRL	BRL	26.2	134	610	0.377	9.37	BRL	BRL	6.82	287
16+00.0	0.200									617						
16+00.2	1	BRL	BRL	35	64.6	BRL	BRL	52.3	139	610	0.837	BRL	BRL	BRL	6.1	206
16+00.4	0.0643	BRL	BRL	BRL	36.8	BRL	BRL	11.4	11.4	6.94	BRL	BRL	BRL	BRL	4.94	7.3
16+00.6	BRL	BRL	BRL	9.69	20.8	BRL	BRL	19.8	18.1	7.56	BRL	BRL	BRL	BRL	8.78	13.7
16+00.8	BRL	BRL	BRL	BRL	5.57	BRL	BRL	11.1	10.3	6.87	BRL	BRL	BRL	BRL	BRL	10.5
16+00.10	BRL	BRL	BRL	BRL	23.5	BRL	BRL	7.38	12.1	11.6	BRL	BRL	BRL	BRL	BRL	13.4
16+00.12	BRL	BRL	BRL	BRL	16.3	BRL	BRL	8.33	8.6	6.21	BRL	BRL	BRL	BRL	BRL	17.6
16+00.14	BRL	BRL	BRL	BRL	8.27	BRL	BRL	1.77	2.01	BRL	BRL	BRL	BRL	BRL	BRL	BRL
16+00.16	BRL	BRL	BRL	BRL	5.7	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
16+50.0	BRL	BRL	BRL	6.27	75.5	BRL	BRL	6.44	46.4	65.7	0.246	6.19	BRL	BRL	8.01	99.3
16+50.2	3.54	BRL	214	79	62.5	BRL	BRL	10.3	4410	13800	1.4	16.5	BRL	18.9	8.18	361
16+50.2	2.60									1060						
16+50.4	BRL	BRL	BRL	5.42	38.7	BRL	BRL	10.8	80.8	10.7	BRL	BRL	BRL	BRL	4.75	134
16+50.6	BRL	BRL	BRL	BRL	11.6	BRL	BRL	7.37	16.6	6.55	BRL	BRL	BRL	BRL	BRL	65.2
16+50.8	BRL	BRL	BRL	BRL	13.9	BRL	BRL	4.83	4.61	BRL	BRL	BRL	BRL	BRL	BRL	9.75
16+50.10	BRL	BRL	BRL	BRL	10.5	BRL	BRL	5.48	4.47	BRL	BRL	BRL	BRL	BRL	BRL	10.4
16+50.12	BRL	BRL	BRL	BRL	6.7	BRL	BRL	3.16	3.95	BRL	BRL	BRL	BRL	BRL	BRL	6.03
16+50.14	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	11.9	5.23	BRL	BRL	BRL	BRL	BRL	7.44
16+50.16	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	2.32	BRL	BRL	BRL	BRL	BRL	BRL	4.16
17+00.0	BRL	BRL	BRL	8.4	75.5	BRL	BRL	8.38	34.3	105	BRL	5.52	BRL	BRL	6.53	76.9
17+00.2	BRL	BRL	15	81.6	138	BRL	BRL	49.8	294	1390	0.51	22	6.19	BRL	20.9	191
17+00.4	0.635	BRL	31.1	189	249	BRL	BRL	4.34	1050	2840	1.15	7.34	6.38	5.57	22.1	1720
17+00.4	1.20									3590						
17+00.6	BRL	BRL	BRL	BRL	16.7	BRL	BRL	1.63	10.1	3.64	BRL	BRL	BRL	BRL	BRL	5.42
17+00.8	BRL	BRL	BRL	BRL	120	BRL	BRL	4.49	10.7	BRL	BRL	BRL	BRL	BRL	6.04	7.32

Sample ID	Depth (feet)	TCLP (mg/L)		TOTAL METALS ANALYSES (mg/kg)													
		Pb	As	Sb	As	Ba	Be	Cd	Cr	Cu	Pb	Hg	Ni	Se	Ag	Tl	Zn
Type 3 RRS		5	5	10	38/41	500	3	39	1200	1500	400	17	420	36	10	10	2,800
SB 18+00	6-8	0.0726		<4.89	34.9					637	1200	15.1				2.47	664
SB 18+00	13.5-15.5	<0.01		<4.46	53.2					8.16	7.23	<0.0904				<1.89	28.9
18+50.0	0	BRL	BRL	4.69	47.6	83.1	BRL	BRL	11.2	218	487	0.697	38.7	BRL	BRL	7.11	487
18+50.2	2	BRL	BRL	12.1	77.3	56.2	BRL	BRL	23.8	242	871	1.41	7.82	BRL	BRL	8.95	712
18+50.4	4	BRL	BRL	BRL	6.46	24	BRL	BRL	7.85	41.3	59.7	BRL	BRL	BRL	BRL	BRL	13.7
18+50.6	6	1.22	BRL	BRL	4.57	37.6	BRL	BRL	7.99	14.4	1360	BRL	5.89	BRL	BRL	BRL	94.2
18+50.8	8	126	0.528	85.5	84.3	66.4	BRL	BRL	BRL	129	3070	8.45	BRL	7.67	2.53	6.31	219
18+50.10	10	58.5	BRL	49.9	156	54	BRL	BRL	2.27	488	5440	8.9	5.1	12.7	3.98	15.6	646
18+50.12	12	BRL	0.339	BRL	7	48.3	BRL	BRL	4.9	5.93	55.3	0.395	BRL	BRL	BRL	BRL	117
18+50.14	14	BRL	BRL	BRL	BRL	21.7	BRL	BRL	17	5.41	22.2	0.291	8.09	BRL	BRL	4.39	32.2
18+50.16	16	BRL	BRL	BRL	BRL	23.6	BRL	BRL	14.1	4.02	10.2	BRL	7.49	BRL	BRL	3.1	24
18+50.18	18	BRL	BRL	BRL	BRL	17.8	BRL	BRL	13.9	5.11	12.9	BRL	4.67	BRL	BRL	BRL	21.2
19+00.0	0	0.521	BRL	10.2	95.5	81.4	BRL	BRL	8.55	550	1100	0.963	11.7	BRL	2.44	12.4	1470
19+00.2	2	BRL	BRL	9.94	73.2	81.9	BRL	BRL	11.2	917	794	0.54	6.19	4.48	BRL	11.2	844
19+00.4	4	BRL	BRL	BRL	BRL	31.6	BRL	BRL	9.73	18.2	79.5	0.295	BRL	BRL	BRL	BRL	27.3
19+00.6	6	0.273	BRL	49.7	420	139	BRL	7.68	BRL	2490	5520	2.37	11.8	13.9	15.6	38.4	7760
19+00.6	6	4.00									3520						
19+00.8	8	BRL	BRL	BRL	BRL	31	BRL	BRL	10.9	1460	11.8	BRL	BRL	BRL	BRL	BRL	989
19+00.10	10	BRL	0.319	BRL	BRL	7.17	BRL	BRL	8.14	180	15.8	BRL	BRL	BRL	BRL	3.29	1090
19+00.12	12	BRL	BRL	BRL	BRL	74.3	BRL	BRL	6.11	120	12.6	BRL	BRL	BRL	BRL	BRL	688
19+00.14	14	BRL	BRL	BRL	12.6	31.3	BRL	BRL	10.1	81.6	59.6	BRL	5.59	BRL	BRL	BRL	268
19+00.16	16	BRL	BRL	BRL	BRL	19.9	1.68	BRL	10.9	6.69	23	BRL	4.18	BRL	BRL	BRL	21.7
19+00.18	18	BRL	BRL	BRL	4	26.6	BRL	BRL	14	5.08	8.27	BRL	5.68	BRL	BRL	BRL	17.8
19+50.0	0*	0.589	BRL	BRL	24.6	83.7	BRL	BRL	9.24	50.5	80.4	1.52	7.07	BRL	BRL	6.64	127
19+50.2	2	BRL	BRL	BRL	21.9	81.7	BRL	BRL	4.89	136	597	0.588	BRL	BRL	BRL	BRL	51
19+50.4	4	BRL	BRL	17.6	220	122	BRL	BRL	7.77	687	2710	0.711	8.26	6.65	6.08	20.1	1670
19+50.4	4	0.350									2830						
19+50.6	6	BRL	BRL	BRL	29.6	41	BRL	2.07	8.25	736	346	BRL	BRL	BRL	BRL	5.2	2470
19+50.8	8	BRL	BRL	7.44	376	309	BRL	BRL	6.5	779	2110	0.281	BRL	5.08	5.7	14.1	961
19+50.10	10	BRL	BRL	BRL	BRL	12.9	BRL	BRL	9.57	66.5	12.9	BRL	BRL	BRL	BRL	BRL	666
19+50.12	12	BRL	BRL	BRL	BRL	36.1	BRL	BRL	7.71	1.76	9.01	BRL	BRL	BRL	BRL	3.08	350

Sample ID	Depth (feet)	TCLP (mg/L)		TOTAL METALS ANALYSES (mg/kg)														
		Pb	As	Sb	As	Ba	Be	Cd	Cr	Cu	Pb	Hg	Ni	Se	Ag	Tl	Zn	
Type 3 RRS		5	5	10	38/41	500	3	39	1200	1500	400	17	420	36	10	10	2,800	
19+50.14	14	BRL	BRL	BRL	BRL	50.5	BRL	BRL	14.9	4.53	13.3	BRL	5.72	BRL	BRL	BRL	21.9	
19+50.16	16*	BRL	BRL	BRL	BRL	34.7	2.44	BRL	14.7	6.22	15.1	BRL	5.72	BRL	BRL	BRL	3.62	24.1
SB 19+50	0-3	0.208		8.23	28.3					115	472	1.19				<2.31	279	
SB 19+50	DUP	0.196		6.89	36.4					119	372	0.337				<2.49	331	
SB 19+50	3-5.5	1.29		81.9	628					3200	5880	0.805			18.6	3380		
SB 19+50	5.5-8	0.631		9.83	81.5					1910	732	0.128			<2.49	1230		
SB 19+50	15.5-18	<0.01		<4.95	62.5					12	70.3	<0.09			<2.48	33.2		
20+00.0	0	BRL	BRL	BRL	114	80.5	BRL	BRL	8.6	83	166	3.03	10.5	BRL	BRL	6.79	200	
20+00.2	2	0.572	BRL	BRL	11.6	24	BRL	BRL	40.7	39.7	303	0.111	5.38	BRL	BRL	BRL	61.5	
20+00.4	4	BRL	BRL	60.9	672	65.3	BRL	6.06	BRL	3260	6280	0.642	19	11.6	24.2	29.7	7280	
20+00.4	4	0.400									6110							
20+00.6	6	BRL	0.306	BRL	170	19.7	BRL	BRL	3.93	50.9	66.1	BRL	BRL	BRL	BRL	BRL	60.3	
20+00.8	8	BRL	BRL	BRL	176	16.4	BRL	BRL	3.43	49.9	47.4	BRL	BRL	BRL	BRL	BRL	54.2	
20+00.10	10	BRL	BRL	BRL	4.95	113	BRL	BRL	8.38	111	38.5	BRL	BRL	BRL	BRL	4.09	384	
20+00.12	12	BRL	BRL	BRL	BRL	192	BRL	BRL	6.07	60.8	18.1	BRL	BRL	BRL	BRL	BRL	215	
20+00.14	14	BRL	BRL	BRL	7.71	18.1	BRL	BRL	12.2	24.5	55.6	BRL	4.84	BRL	BRL	3.45	64.9	
20+00.16	16	BRL	BRL	BRL	BRL	39.1	BRL	BRL	16.9	6.03	16.2	BRL	6.16	BRL	BRL	BRL	27.1	
20+50.0	0	BRL	0.525	29.2	942	143	BRL	BRL	21.1	455	1380	BRL	21.2	5.52	3.8	14.6	1270	
20+50.2	2	0.261	BRL	38.5	902	177	BRL	3.54	8.03	1410	3770	1.68	13.1	9.67	13.1	26.7	4350	
20+50.2	2	0.300									2730							
20+50.4	4	BRL	BRL	BRL	BRL	30.4	BRL	BRL	3.51	105	47	0.0974	BRL	BRL	BRL	BRL	12.7	
20+50.6	6	BRL	BRL	BRL	BRL	25.3	BRL	BRL	4.29	117	31.8	BRL	BRL	BRL	BRL	BRL	31.2	
20+50.8	8	BRL	BRL	BRL	5.39	36.3	BRL	4.34	3.95	1910	51.1	BRL	5.53	BRL	BRL	BRL	940	
20+50.10	10	BRL	BRL	BRL	BRL	86	BRL	BRL	4.89	3.2	8.67	BRL	BRL	BRL	BRL	BRL	20.5	
20+50.12	12	BRL	BRL	BRL	BRL	56.4	BRL	BRL	3.92	BRL	8.1	BRL	BRL	BRL	BRL	BRL	14	
20+50.14	14	BRL	BRL	BRL	BRL	28.4	BRL	BRL	4.55	156	22.8	BRL	BRL	BRL	BRL	BRL	531	
20+50.16	16	BRL	BRL	BRL	8.83	81	2.21	BRL	9.49	4.97	10	BRL	6.65	BRL	BRL	4.32	17.4	
21+00.0	0	0.059	BRL	BRL	55.6	144	BRL	BRL	16.2	134	496	0.198	7.97	BRL	BRL	6.61	345	
21+00.2	2*	BRL	BRL	BRL	BRL	26.9	BRL	BRL	6.37	4.22	10.7	BRL	BRL	BRL	BRL	BRL	23.6	
21+00.4	4	0.167	0.724	13.4	199	102	BRL	BRL	42.5	355	1240	3.46	24.3	5.58	3.78	17.6	659	

Sample ID	Depth (feet)	TCLP (mg/L)		TOTAL METALS ANALYSES (mg/kg)														
		Pb	As	Sb	As	Ba	Be	Cd	Cr	Cu	Pb	Hg	Ni	Se	Ag	Tl	Zn	
Type 3 RRS		5	5	10	38/41	500	3	39	1200	1500	400	17	420	36	10	10	2,800	
21+00.4	4	0.300																
21+00.6	6	BRL*	BRL	11.4	493	103	BRL	BRL	26.8	733	628	2.8	44.6	BRL	BRL	10.2	806	
21+00.8	8	0.143*	1.4	BRL	438	59.8	BRL	BRL	8.91	644	312	0.165	BRL	BRL	BRL	5.26	514	
21+00.10	10	0.288	0.542	BRL	76.3	40.8	BRL	2.23	6.39	98.4	96.9	0.312	4.27	BRL	BRL	BRL	784	
21+00.12	12	BRL	BRL	BRL	5.06	19.2	BRL	BRL	3.8	3.96	13.5	BRL	BRL	BRL	BRL	BRL	10.3	
21+00.14	14	BRL	BRL	BRL	BRL	127	BRL	BRL	14.5	6.16	14.5	BRL	6.48	BRL	BRL	BRL	25.6	
21+00.16	16	BRL	BRL	BRL	BRL	104	BRL	BRL	12.6	3.71	7.88	BRL	4.75	BRL	BRL	BRL	18.5	
SB 21+00	0-1	2.35		<3.51	184					285	386	3.35			<2.07		645	
SB 21+00	1-3	0.338		<3.66	611					311	1110	6.06			<1.7		556	
SB 21+00	DUP	0.565		<3.59	484					345	1100	6.08			<2.25		666	
SB 21+00	3.5-5.5	2.32		<4.54	214					887	807	4.44			<1.69		272	
SB 21+00	6-8	7.91		<4.69	306					1380	3000	4.11			6.21		3400	
SB 21+39	0.5-1.4	1.72		3.78	42.2					185	1838	0.76			2.16		562	
21+50.0	0	BRL	BRL	BRL	41.3	92.4	BRL	BRL	33.9	165	530	1.35	20.4	BRL	BRL	5.89	333	
21+50.2	2	0.116	0.555	BRL	9.34	42.6	BRL	3.47	84.1	46.5	100	0.615	8.25	BRL	BRL	BRL	136	
21+50.4	4	BRL	BRL	BRL	8.24	41.1	BRL	2.37	62.2	31.3	82.8	0.528	8.47	BRL	BRL	3.52	98.6	
21+50.6	6	0.962	4.6	46.8	464	174	BRL	BRL	27.4	695	4380	64.6	42.6	25.7	6.49	12.3	637	
21+50.6	6	1.95									1950							
21+50.8	8	0.0664	0.499	BRL	83.4	21.9	BRL	BRL	8.8	1840	271	0.188	BRL	BRL	BRL	BRL	369	
21+50.10	10	0.238	0.324	BRL	81.6	35.6	BRL	BRL	12.9	1500	529	0.468	BRL	BRL	BRL	BRL	408	
21+50.12	12	BRL	BRL	BRL	BRL	22.9	BRL	BRL	15	2.27	11.3	BRL	BRL	BRL	BRL	4.65	97.2	
21+50.14	14	BRL	BRL	BRL	5.23	20.2	BRL	BRL	14.1	47	97.5	0.0969	4.05	BRL	BRL	3.97	91.1	
21+50.16	16	BRL	BRL	BRL	13.9	18.7	BRL	BRL	12.2	5.36	10.8	BRL	BRL	BRL	BRL	BRL	16.6	
22+00.0	0	0.133	BRL	4.46	41.6	94.6	BRL	BRL	16.4	189	816	6.28	14.4	BRL	BRL	5.2	1030	
22+00.2	2	0.175	BRL	8.72	28.3	110	BRL	BRL	9.81	67.4	545	3.43	3.59	3.44	BRL	7.9	76.5	
22+00.4	4	0.0714	BRL	17.3	91.9	102	BRL	BRL	7.29	281	952	2.21	4.13	4.28	2.34	9.48	434	
22+00.6	6	0.297	BRL	16.6	277	98.8	BRL	4.62	3.61	2530	2350	BRL	6.98	11	8.72	25.3	3470	
22+00.6	6	0.450									524							
22+00.8	8	BRL	BRL	BRL	BRL	65.5	BRL	BRL	15.8	4.67	15.6	BRL	BRL	BRL	BRL	5.19	1870	
22+00.10	10	BRL	BRL	BRL	BRL	64.4	BRL	BRL	8.62	13.8	32.1	0.109	BRL	BRL	BRL	BRL	43.3	

Sample ID	Depth (feet)	TCLP (mg/L)		TOTAL METALS ANALYSES (mg/kg)													
		Pb	As	Sb	As	Ba	Be	Cd	Cr	Cu	Pb	Hg	Ni	Se	Ag	Tl	Zn
Type 3 RRS		5	5	10	38/41	500	3	39	1200	1500	400	17	420	36	10	10	2,800
22+00.12	12	BRL	BRL	BRL	BRL	46.8	BRL	BRL	6.55	1.79	8.7	BRL	BRL	BRL	BRL	BRL	7.15
22+00.14	14	BRL	BRL	BRL	BRL	52.7	BRL	BRL	10.4	25.8	19.2	BRL	6.21	BRL	BRL	BRL	22.2
22+50.0	0	0.0876	BRL	BRL	59.4	92.3	BRL	BRL	15.4	237	626	0.718	9.07	BRL	BRL	8.48	473
22+50.0		0.500									556						
22+50.2	2	0.111	BRL	BRL	42.4	78.5	BRL	BRL	16.8	120	386	0.59	9.41	BRL	BRL	7.34	322
22+50.4	4	0.107	BRL	BRL	3.65	46.1	BRL	BRL	7.27	29.6	98	0.152	BRL	BRL	BRL	BRL	78.2
22+50.6	6	BRL	BRL	BRL	BRL	12.5	BRL	BRL	2.2	2.01	7.06	BRL	BRL	BRL	BRL	BRL	96.7
22+50.8	8	BRL	BRL	BRL	BRL	16.2	BRL	BRL	8.94	6.84	8.21	BRL	BRL	BRL	BRL	3.84	53.5
22+50.10	10	0.148	BRL	BRL	33.9	61.1	BRL	BRL	18.8	132	400	1.38	8.44	BRL	BRL	5.46	232
22+50.12	12	0.059	BRL	BRL	BRL	4.95	BRL	BRL	2.39	5.59	3.82	0.312	BRL	BRL	BRL	BRL	66.6
22+50.14	14	BRL	BRL	BRL	BRL	6.52	BRL	BRL	6.18	8.49	7.21	BRL	BRL	BRL	BRL	BRL	74.6
SB 22+50	0-1	0.144		8.51	40.3					112	486	2.51			<2.48		282
23+00.0	0	0.343	BRL	BRL	BRL	31.8	BRL	BRL	6.76	3.77	7.46	0.109	BRL	BRL	BRL	BRL	22.8
23+00.2	2	BRL	BRL	BRL	13.9	47.3	BRL	BRL	4.77	134	159	0.335	7.04	BRL	BRL	6.35	88.7
23+00.4	4	BRL	BRL	BRL	49.2	128	BRL	BRL	3.31	455	21.3	BRL	6.85	BRL	BRL	10.7	191
23+00.4	4				10.4												1.46
23+00.6	6	BRL	BRL	BRL	BRL	9.91	BRL	BRL	2.33	166	8.48	BRL	BRL	BRL	BRL	BRL	21.3
23+00.8	8	BRL	BRL	BRL	BRL	13.9	BRL	BRL	8.46	34	7.25	BRL	BRL	BRL	BRL	BRL	217
23+00.10	10	BRL	BRL	BRL	BRL	13.2	BRL	BRL	6.8	6.46	4.89	BRL	BRL	BRL	BRL	BRL	72.1
23+00.12	12	BRL	BRL	BRL	BRL	27.7	BRL	BRL	12	3.13	7.52	BRL	BRL	BRL	BRL	BRL	34.7
23+00.14	14	BRL	BRL	BRL	BRL	19.4	BRL	BRL	5.95	5.02	8.06	BRL	4.29	BRL	BRL	BRL	20.7
23+00.16	16	BRL	BRL	BRL	BRL	21	3.84	BRL	10.1	3.01	5.46	BRL	11.4	BRL	BRL	BRL	17.9
23+00.16	16						0.625										
C-4		0.0534	BRL	4.79	39.1	74.8	BRL	BRL	23.1	256	712	2.79	6.2	BRL	BRL	6.8	486
C-3		BRL	BRL	BRL	13.3	41.5	BRL	2.33	56.7	71.2	243	0.975	5.38	BRL	BRL	4.64	446
C-2		15.9	BRL	30.5	161	18.7	BRL	BRL	BRL	273	2220	3.92	BRL	5.35	10.4	19.1	100
C-1		1.16	BRL	9.68	171	51.4	BRL	BRL	5.57	283	1990	5.54	BRL	12.5	BRL	BRL	375
NOTES:	SB analytical data used to supplement United Consulting data for excavation decisions and included for review purposes																
	Shading in the depth column is the excavation required at that station, resulting from Type 1 and or Type II remedial soil conditions																

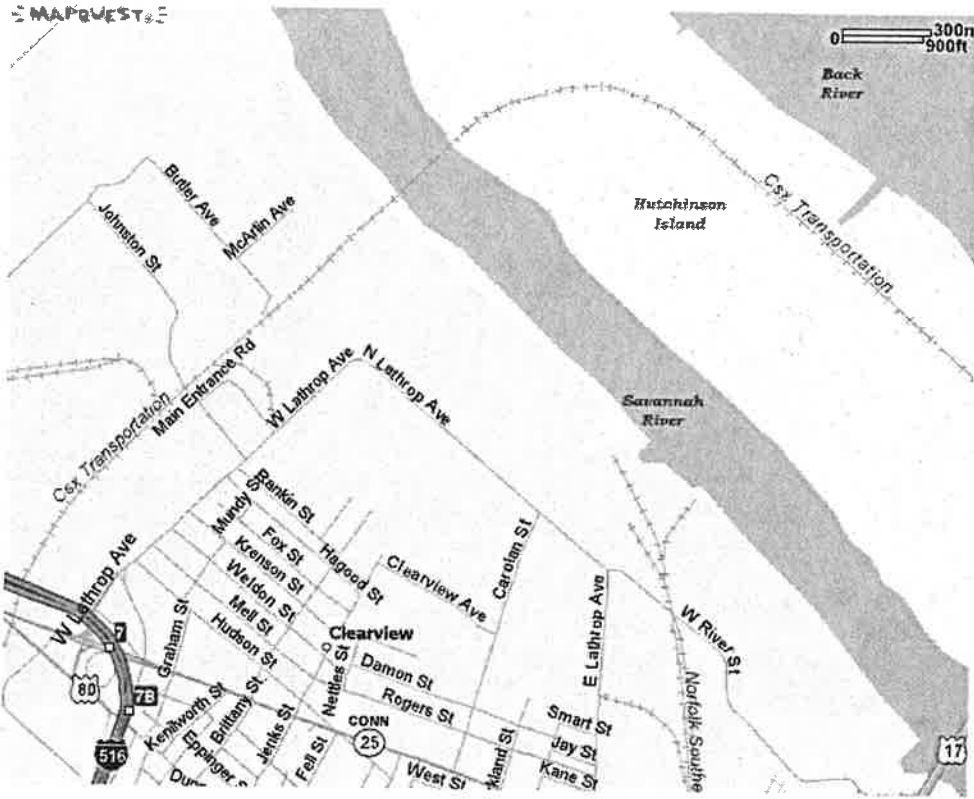
Sample ID	Depth (feet)	TCLP (mg/L)		TOTAL METALS ANALYSES (mg/kg)													
		Pb	As	Sb	As	Ba	Be	Cd	Cr	Cu	Pb	Hg	Ni	Se	Ag	Tl	Zn
Type 3 RRS		5	5	10	38/41	500	3	39	1200	1500	400	17	420	36	10	10	2,800
		* beside a depth value indicates the decision data is from SB samples previously acquired at the site by EMC															
		* beside a TCLP lead value indicates the decision data is from SB samples previously acquired at the site by EMC															
		Shading in the TCLP lead column indicates the excavation requiring treatment, constituting Type 2 remedial soil conditions															
		all measurements for quantities are based on one foot before and after the sample depth															
		(eg excavation shading from 0 to 6 feet would be 7 feet of excavation, 4 to 8 would be 6 feet of excavation															
		Italicized results indicate samples that were re-analyzed using different preparation method.															

TABLE 3: VERIFICATION SOIL SAMPLING

Sample Number	Type	Location	Date	TCLP Lead	Total Lead	Total Arsenic
East End V-1	Grab	9+80 -10+00	3/10/05	13	2,000	130
Middle pile- V-2	Grab	9+80 -10+00	3/10/05	240	27,000	2,500
North End V-4	Grab	9+80 -10+00	3/10/05	93	7,100	270
West End V-3	Grab	9+80 -10+00	3/10/05	<0.20	47	3.5
S-6-1	Composite	11+35	4/21/05	0.873	39.5	10.1
S-7-1	Composite	11+60	4/28/05	BRL	18.0	19.5
S-7-1	Composite	11+60-11+80	5/2/05	BRL	45.1	99.3
V-5	Composite	11+60	5/6/05	NA	34.6	11.1
S-8	Composite	12 + 35 - 40	5/26/05	BRL	BRL	6.74
S-9	Composite	13+75 - +80	6/27/05	BRL	BRL	58.4
TCLP results in mg/L Total results in mg/Kg Samples V-1 through V-4 were collected from soils that were stockpiled on site due to suspect discoloring, based on results these soils were treated on site prior to disposal						

**TABLE 4: TREATED SOIL
TCLP VERIFICATION TESTING SUMMARY**

Sample Number	Location	Date	Type	Lead	Arsenic
1-1	Pit 1	2/23/05	Grab	9.3	NA
1-2	Pit 1	2/23/05	Grab	19	NA
1-3	Pit 1	2/23/05	Grab	15	NA
1-4	Pit 1	2/23/05	Grab	3.4	NA
V-1-1	Pit 1	3/3/05	Composite	<0.20	NA
2-R	Pit 2	3/12/05	Composite	<0.20	NA
3-1	Pit 2	3/17/05	Composite	28.7	NA
V-2-1	Pit 1	3/17/05	Composite	0.453	NA
V-4-1	Pit 2	3/24/05	Composite	19.7	NA
S-4-1	Pit 3	3/25/05	Composite	13.2	NA
S-5-1	Pit 3	3/29/05	Composite	9.67	NA
V-5-L	Pit 2	3/31/05	Composite	1.71	NA
V-6	Pit 1	6/13/05	Composite	BRL	NA
V-7	Pit 1	6/13/05	Composite	BRL	NA
V-8	Pit 1	7/01/05	Composite	NA	BRL
Samples below were collected by Winter					
04021-1	Pit 1	3/03/05	Composite	<0.20	NA
PT1-312	Pit 1	3/12/05	Composite	5.5	NA
PT1-31705	Pit 1	3/17/05	Composite	2.7	NA
PT2-31705	Pit 2	3/17/05	Composite	10.7	NA
FS-1	Pit	4/21/05	Composite	89	NA
PT4-422	Pit 1	4/22/05	Composite	BRL	NA
PT12-511	Pit 1 and 2	5/11/05	Composite	BRL	NA
PT 1- 526	Pit 1	5/26/05	Composite	BRL	NA
PT-2 6705	Pit 2	6/7/05	Composite	BRL	NA
PT 1-613	Pit 1	6/13/05	Composite	BRL	NA
PT 1-627	Pit 1	6/27/05	Composite	BRL	NA
PT2 95	Pit 2	9/5/05	Composite	BRL	NA
All results in mg/L United Consulting samples V-6 through V-8 were treated using Enviroblend Winter Samples listed below FS-1 were treated with Enviroblend					



TITLE: SITE LOCATION PLAN

PROJECT NO: 2003.1146.01

DATE: 20-Feb-06

SCALE: BAR

WESTSIDE STORMWATER OUTFALL

REVISIONS:

CHECKED:

PREPARED: IGP

CLIENT:

CITY OF SAVANNAH

UNITED CONSULTING
625 Holcomb Bridge Road, Norcross, GA



FIG. 1



SCALE: 1" = 2,000'
 PREPARED: IGP
 CLIENT: CITY OF SAVANNAH

DATE: 20-Feb-06
 CHECKED:

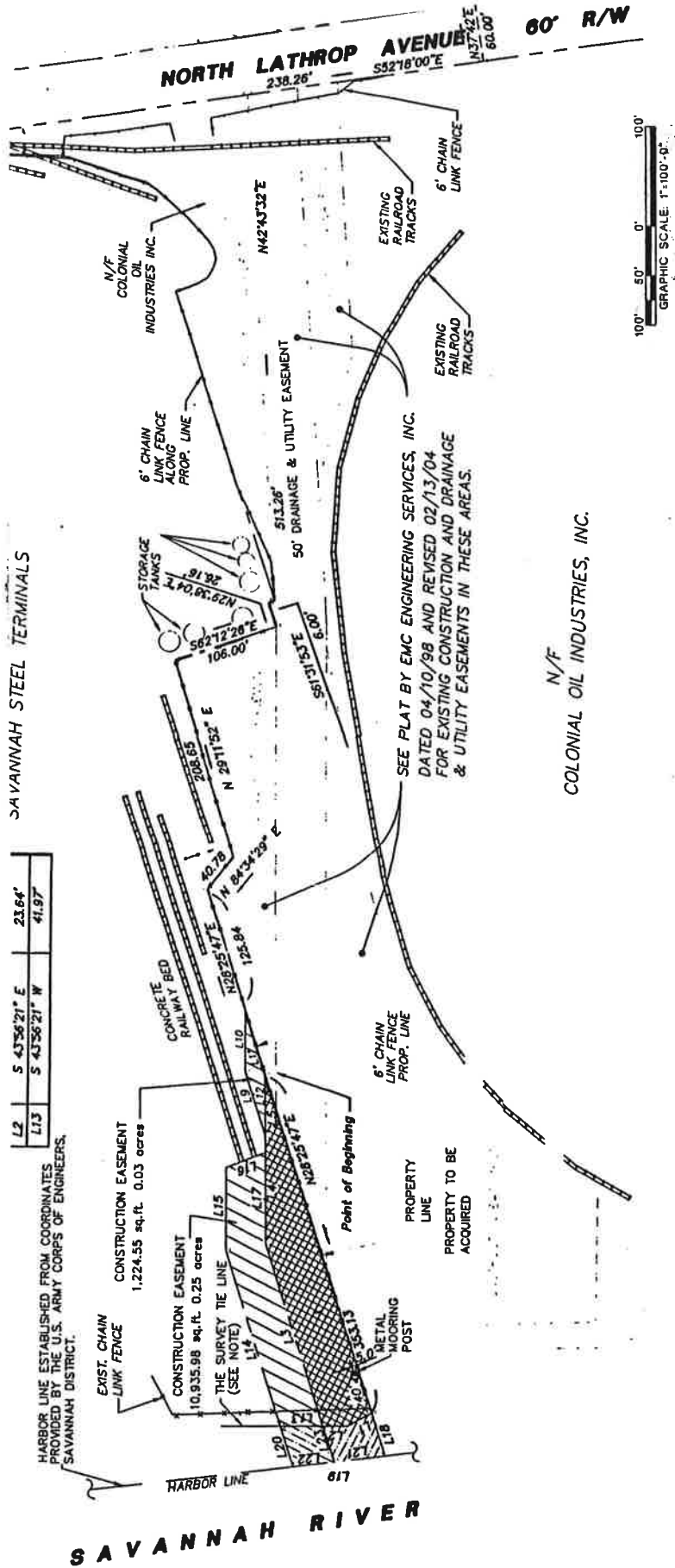
PROJECT NO: 2003.11146.01
 REVISIONS:

TITLE: TOPOGRAPHIC MAP
 WESTSIDE STORMWATER OUTFALL
 UNITED CONSULTING
 625 Holcomb Bridge Road, Norcross, GA



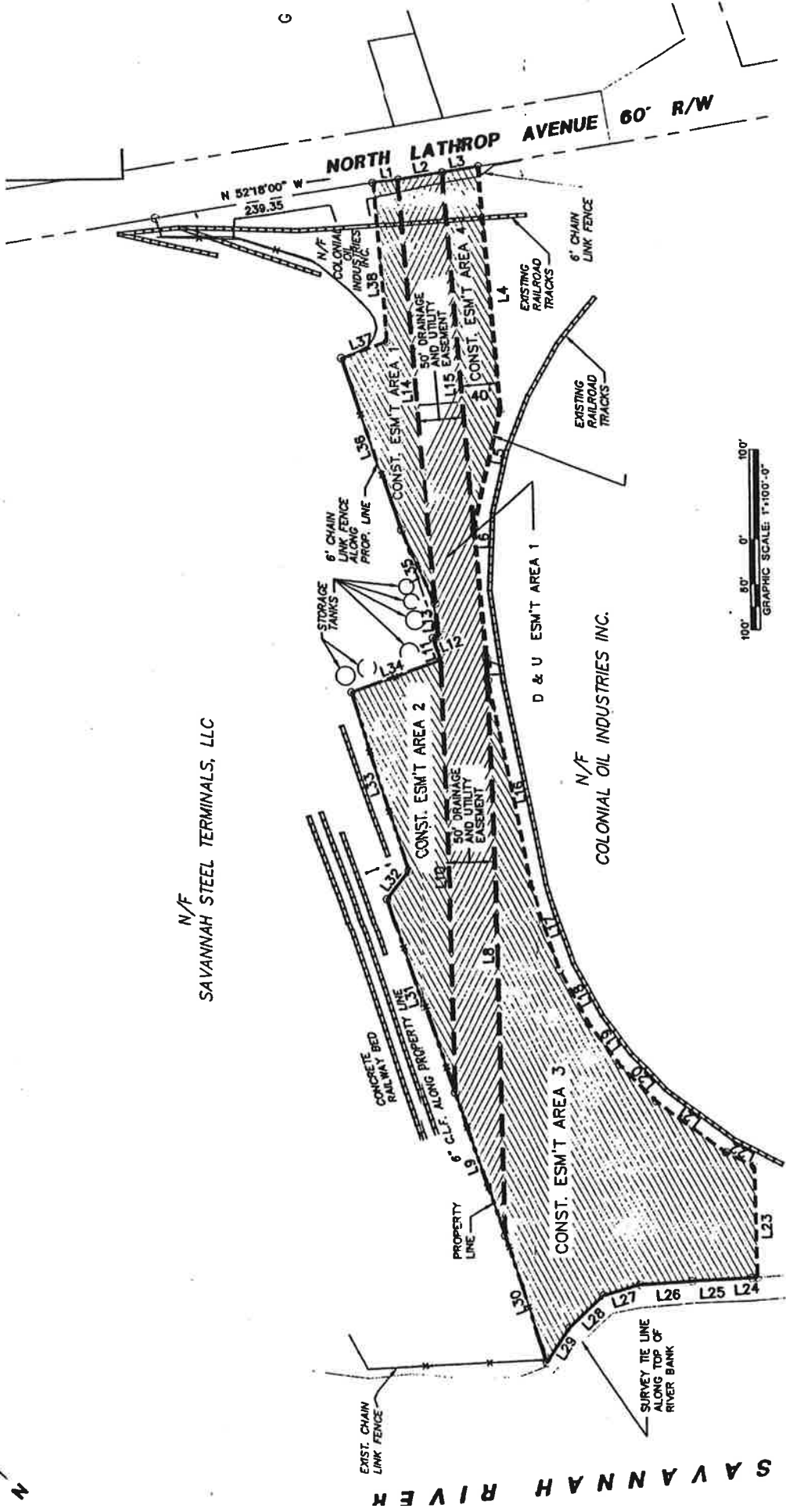
FIG. 2

APPENDIX A – Easement Survey and Tax Map



SCALE: BAR	DATE: 9-May-06	PROJECT NO: 2003.1146.01	TITLE: EASEMENT LAYOUT
PREPARED: IGP	CHECKED:	REVISIONS:	WESTSIDE STROM WATER OUTFALL
CLIENT: THE CITY OF SAVANNAH			UNITED CONSULTING 625 Holcomb Bridge Road, Norcross, GA





N/F
SAVANNAH STEEL TERMINALS, LLC

N/F
COLONIAL OIL INDUSTRIES INC.

SCALE:	BAR	DATE:	9-May-06	PROJECT NO:	2003.1146.01	TITLE:	EASEMENT LAYOUT
PREPARED:	IGP	CHECKED:		REVISIONS:		WESTSIDE STROM WATER OUTFALL	
CLIENT:				UNITED CONSULTING 625 Holcomb Bridge Road, Norcross, GA			



Property Analysis Tools

Map Tools

Map Size

Map Tools

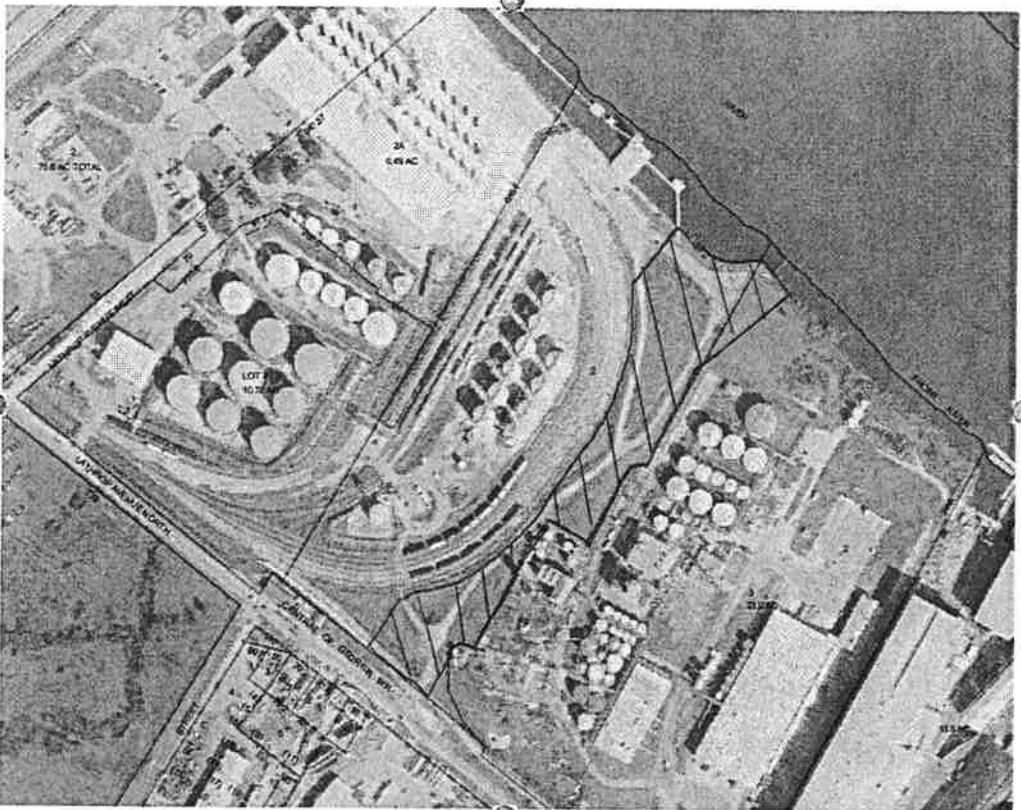
Parcels

Parcel Number	1-0549 -01-002
Account Number	C337170

Information

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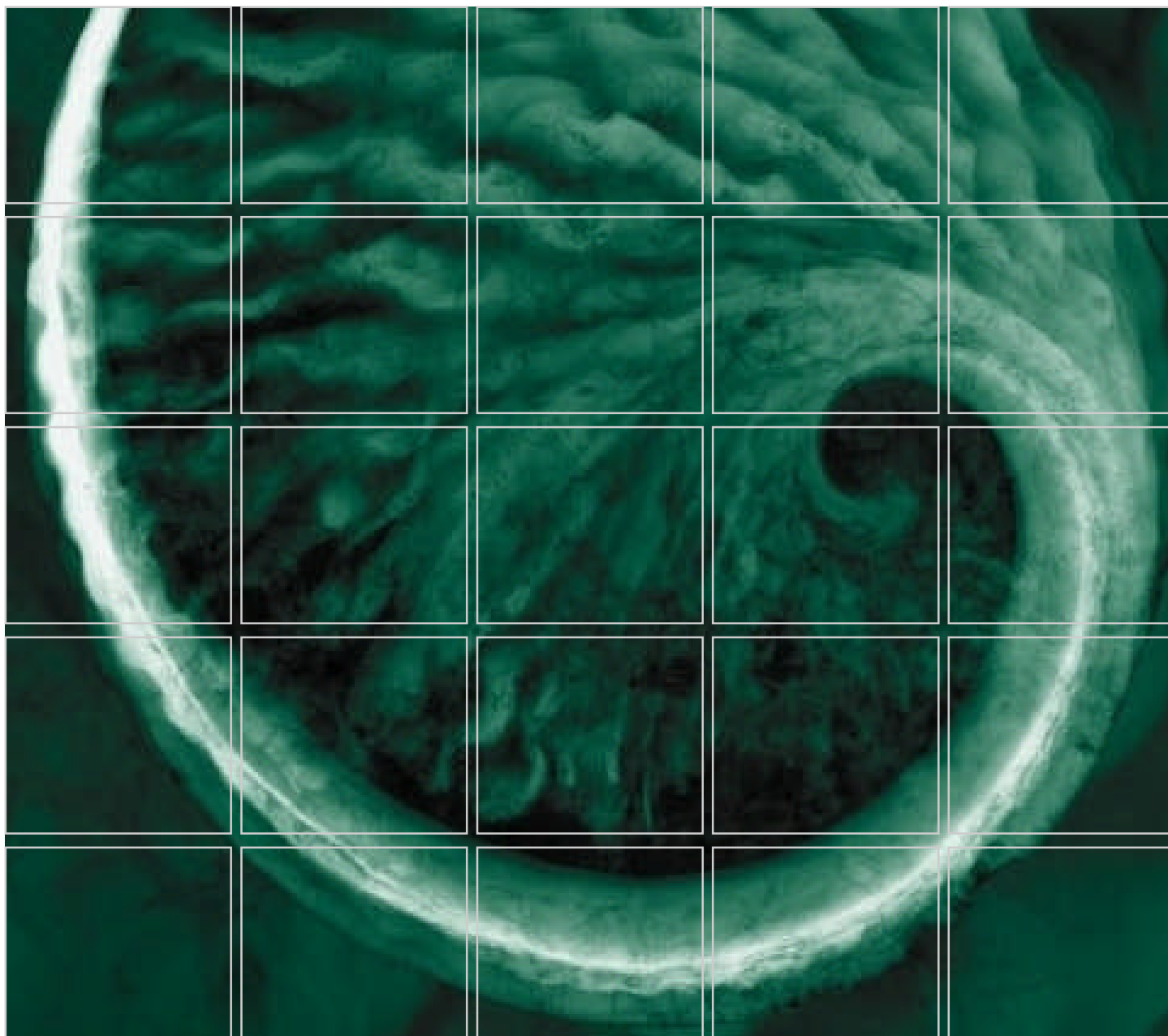


Selected Property: [None]

0 = 113 ft

Property Search Market Analysis Property

APPENDIX D
Compliance Status
Report for Metals
in Soil (ERM, 2011)
– Electronic only



Revised Compliance Status Report (CSR) for Metals in Soil

**Colonial Terminals
Savannah, Georgia
HSI Site No. 10098**

August, 2011

www.erm.com



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STATEMENT OF FINDINGS

As required in Chapter 391-3-19-.06(3)(b)10 of the Hazardous Site Response Act (HSRA) regulations, this section presents a concise statement of findings of this Compliance Status Report (CSR).

Environmental Resources Management (ERM) has prepared this Final CSR for Metals in Soil for the Colonial Terminals (Colonial) site located at 373 North Lathrop Avenue in Savannah, Chatham County, Georgia. The Colonial facility is a former phosphate fertilizer manufacturing facility. It is a terminal facility located on the Savannah River and is currently used for loading and off-loading operations, for trucks, rail, and barge traffic. The original CSR was prepared previously for this site by ERM in September 1999 and submitted to the Georgia Environmental Protection Division (EPD) on behalf of the responsible parties (RPs). Addenda to the CSR were subsequently submitted to EPD by ERM in both 2000 and then in 2002.

The CSR identified metals and volatile organic compounds (VOCs) as contaminants of concern from previous waste handling practices. An initial Corrective Action Plan (CAP) for VOCs was submitted by a different consultant (MACTEC Engineering and Consulting) in August 2006, and a revised VOC CAP was again submitted by ERM in October 2008. The October 2008 revised CAP for VOCs was approved by the Georgia Department of Natural Resources, Environmental Protection Division (EPD) in a December 5, 2008 correspondence. In subsequent correspondence, addenda to the revised CAP were provided for Risk Reduction Standards for metals in groundwater.

The CAP for soil metals remediation was previously approved and the soil remediation complete. A total of four (4) different revisions of a Corrective Action Plan (CAP) for metals in soil have been submitted to EPD. Conditional approval of the soil metals CAP was granted by EPD on April 21, 2006 and finalized with approval of Risk Reduction Standards or RRS calculations, and changes to both the Corrective Action schedule and sampling program on October 19, 2007.

After final correspondence relating to RRS was completed, Corrective Action Planning and coordination began. The remedial alternative selected and approved involved excavation and offsite disposal of impacted soil. An Erosion and Sedimentation Control Plan and Land Disturbance Permit were obtained to complete the remedial work. ERM also submitted a notice of intent to discharge storm water associated with site activities prior to mobilization.

Mobilization for corrective action occurred on October 22, 2007. During the remediation, a total of 23,415.7 tons of impacted soil from Areas A through I were excavated, stockpiled, and transported and disposed at an approved offsite landfill facility (Waste Management's Superior landfill in Savannah, Georgia). The excavation

areas were then backfilled, compacted, and sloped to match existing grades completing site restoration activities.

The Final CSR for Metals in Soil was submitted to EPD on December 9, 2009. Comments on the Final Compliance Status Report (CSR) for Metals in Soil were provided by EPD on April 2, 2010. A letter was submitted requesting an extension to the May 31, 2010 deadline for submittal of comment response and a Revised CSR on May 26, 2010. A comment response letter and Revised CSR was submitted to EPD on July 15, 2010.

Additional soil sampling conducted as requested in Comment #1 of the April 2, 2010 EPD comment letter identified the need for additional remediation activities in Area D. Additional sampling and excavation activities conducted in 2010 in response to Comment #1 of the April 2, 2010 EPD comment letter resulting in excavation of 40 cubic yards of impacted soil from Area D. Impacted soils were excavated, stockpiled, and transported and disposed at an approved offsite landfill facility (Waste Management's Superior landfill in Savannah, Georgia). The excavation areas were then backfilled, compacted, and sloped to match existing grades completing site restoration activities.

In order to ensure that soils remaining in place do not pose a threat to ground water quality, post verification sampling is also being performed at the facility. This includes the periodic collection of ground water samples from permanent site monitoring wells. The most recent groundwater sampling event was conducted in September 2010. Additional sampling events will be conducted at two year intervals in accordance with the approved EPD soils metal CAP schedule and also in conjunction with the schedule for the VOC CAP remediation.

The remedial work performed for metals in soil has brought this Site into compliance with Type 4 and/or Type 5 RRS lead and arsenic in soil media. This CSR details those field activities that were performed and is described herein. While the remediation in soil for lead and arsenic is complete, some soil impacted with VOCs (approximately 30 tons at one discrete location) still remains onsite. The VOC impacted soil is being remediated through operation of a soil vapor extraction (SVE) system as described in the October 2008 CAP for VOCs.

CERTIFICATION OF COMPLIANCE WITH RISK REDUCTION STANDARDS

I certify under penalty of law that this report and all attachments were prepared under my direction in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Based on my review of the findings of this report with respect to the risk reduction standards of the Rules for Hazardous Site Response, Rule 391-3-19-.07, I have determined that 1) This site/property (Parcel Number 1-0549-01-002) is in compliance with Type 4 and/or Type 5 risk reduction standards for lead and arsenic in soil media in accordance with Georgia EPD regulatory negotiations.


JAMES R BAKER

Name

EDS MANAGER

Title

8/3/2011

Date

COLONIAL TERMINALS, INC

Company

CERTIFICATION OF COMPLIANCE WITH RISK REDUCTION STANDARDS

I certify under penalty of law that this report and all attachments were prepared under my direction in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Based on my review of the findings of this report with respect to the risk reduction standards of the Rules for Hazardous Site Response, Rule 391-3-19-.07, I have determined that 1) This site/property (Parcel Number 1-0549-01-002A) is in compliance with Type 4 and/or Type 5 risk reduction standards for lead and arsenic in soil media in accordance with Georgia EPD regulatory negotiations.


JAMES R. BAKER

Name

EHS MANAGER

Title

8/3/2011

Date


COLONIAL TERMINALS, INC

Company

CERTIFICATION OF COMPLIANCE WITH RISK REDUCTION STANDARDS

I certify under penalty of law that this report and all attachments were prepared under my direction in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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Name **KENNETH ANDERSON**

Authorized Representative

Title

August 3, 2011

Date

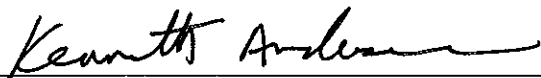
Estech, Inc.

Company

CERTIFICATION OF COMPLIANCE WITH RISK REDUCTION STANDARDS

I certify under penalty of law that this report and all attachments were prepared under my direction in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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Name

KENNETH ANDERSON

Authorized Representative

Title

August 3, 2011

Date

Estech, Inc.

Company

CERTIFICATION OF COMPLIANCE WITH RISK REDUCTION STANDARDS

I certify under penalty of law that this report and all attachments were prepared under my direction in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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Steven P. Schmiot STEVEN P. SCHMIOT
Name

Agent and Attorney in Fact
Title

August 8, 2011
Date

ExxonMobil Oil Corporation
Company

CERTIFICATION OF COMPLIANCE WITH RISK REDUCTION STANDARDS

I certify under penalty of law that this report and all attachments were prepared under my direction in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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Steven P. Schmidt STEVEN P. SCHMIDT
Name

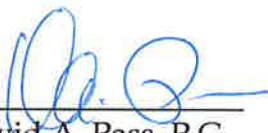
Agent and Attorney in Fact
Title

August 8, 2011
Date

ExxonMobil Oil Corporation
Company

GROUND WATER SCIENTIST STATEMENT

I certify that I am a qualified ground water scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in ground water hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding ground water monitoring and contaminant fate and transport. I further certify that this Final Compliance Status Report for Hazardous Site Inventory Site No. 10098 was prepared by me and appropriate qualified subordinates working under my direction.



David A. Pass, P.G.
Georgia License No. 1498



8/17/2011
Date

1.0 INTRODUCTION

1.1 OVERVIEW

Environmental Resources Management (ERM) has prepared this Final Compliance Status Report (CSR) for Metals in Soil on behalf of Exxon-Mobil Corporation, Colonial Terminals, Inc. and Estech, Inc. (responsible parties). The CSR is prepared for the Colonial Terminals #2 facility, currently listed on the Georgia Hazardous Site Inventory (HSI #10098) as a result of previous releases of hazardous materials. The Site is located at 373 North Lathrop Avenue, in Savannah, Georgia.

Portions of the site have previously been remediated as a result of the installation of a storm water drainage improvement by the City of Savannah. A separate Construction/Corrective Action Plan was submitted by others to the EPD on behalf of the City of Savannah on March 13, 2002.

1.2 HSI SITE STATUS

Metals and volatile organic compounds (VOCs) have been documented in Site soil and groundwater at concentrations above applicable Risk Reduction Standards (RRS). This Revised CSR will present the status of the Site with respect to metals in soil. ERM's "*Revised Corrective Action Plan for Volatile Organic Compounds*" (October 2008) addresses VOC impacts in soil and groundwater and metals impacts in groundwater.

1.3 PURPOSE OF THIS DOCUMENT

The purpose of this document is to provide final resolution of metals contamination in soil only. Excavation activities were performed to remove, transport and dispose soil containing arsenic and lead above RRS. This document will provide the summary of activities conducted and show compliance with RRS for metals in soils.

1.4

ORGANIZATION

This Revised Compliance Status Report presents a discussion of the regulatory status of the Colonial Terminals #2 Site as follows:

- Section 2 presents a discussion of the Site location and potential sources of HSRA regulated compounds;
- Section 3 presents a summary of previous investigations and the contaminants of concern identified in Site soils;
- Section 4 presents the corrective action goals including RRS calculated for the Site and the activities conducted in 2007 to bring the Site into compliance;
- Section 5 presents the corrective action goals including RRS calculated for the Site and the activities conducted in 2010 to bring the Site into compliance; and
- Section 6 presents the results of soil sampling performed to document compliance with the Site specific RRS for metals in soil.

2.0 SITE BACKGROUND INFORMATION

2.1 LOCATION AND DESCRIPTION

The location of the Site is provided on Figure 2-1. A tax parcel location map is included as Figure 2-2. The Site is located at 373 North Lathrop Avenue and abuts the tidal Savannah River in Savannah, Chatham County, Georgia. The area near the Site is highly industrialized.

Source areas of HSRA-regulated substances at the Site are discussed in Section 2.2 below.

2.2 POTENTIAL SOURCES OF HSRA-REGULATED MATERIALS

The previous documents (CAP, Revision 4) presented source area locations for the project Site for both metals and VOCs. Metals contaminant sources appeared to include two areas described below.

The first area includes the locations of two former sludge-settling ponds and a former sludge pile. The two ponds were used by Virginia-Carolina Chemical Company (Virginia-Carolina) and Swift Agricultural Chemicals Corporations (Swift) from the late 1950s to the late 1970s for settling sludges from wastewater associated with the manufacture of fertilizers. The sludge pile was adjacent to the settling ponds.

In addition, former fertilizer production facilities that may represent former source areas were located at numerous locations on the east side of the current rail yard. These include an area encompassed by the “Westside Flood Relief Project”. That project consisted of storm water improvements constructed by the City of Savannah. These improvements resulted in excavation of soils in the Flood Relief Project area and installation of a concrete box culvert storm drain outfall. The areas outside of the city project in excess of RRS criterion were considered potential source areas for the purpose of identification of residual contaminants.

Manufacture of fertilizers has not been conducted at this Site since the late 1970s. The concentrations that are currently detected in soil and ground water are believed to be residual from that time. Based on data that have been evaluated, it appears that soil may be a source for metals that are present in the ground water. This report describes the removal actions

conducted for soils that contain metals at concentrations that exceed the approved RRS.

3.0 SUMMARY OF PREVIOUS SITE INVESTIGATIONS

3.1 SUMMARY OF HISTORICAL DOCUMENTS

Table 3-1 presents a history of submittals associated with the metals contamination at the Site. Submittals have been documented from the time that the original Compliance Status Report (CSR) submittal was conducted (September 30, 1999) through this submittal, Revised CSR for Metals in Soil dated August 5, 2011.

3.2 COMPLIANCE STATUS REPORT

The original CSR was submitted to EPD in September 1999. The CSR identified metals and VOCs as contaminants of concern. ERM submitted CSR Addendum #1 on March 22, 2000 addressing discussions of background soil concentrations, source area delineation, and soil contaminant delineation in an effort to fulfill the EPD requirements.

Additional correspondence in 2000 and 2001 included resolution of background data and regulated substances. CSR Addendum #2 was submitted to GA EPD on January 10, 2002. EPD responded on June 12, 2002 with comments on delineation, offsite access, and RRS computations that have since been resolved and are further discussed in Section 3.3. Property access issues were resolved via correspondence in late 2002.

3.3 CORRECTIVE ACTION PLAN

The Corrective Action Plan (CAP) was submitted to EPD on November 27, 2002. The cover letter to the CAP addressed outstanding unresolved issues with the CSR. CAP Revision #1 was submitted to EPD on January 31, 2003 addressing comments to the CAP regarding soil alternatives (descriptions and costs) and site specific K_d value computations.

CAP Revision #2 was submitted to EPD on December 15, 2003 to address EPD comments and modified regulations (GA HSRA was modified on June 25, 2003) regarding the following: Delineation, Source Areas, RRS calculations, K_d values, ground water modeling, and Type 5 closure standards.

Correspondence between 2004 and April, 2005 addressed all outstanding issues. On April 30, 2005 CAP Revision #3 was issued to EPD to address outstanding comments.

On October 24, 2005 CAP Revision #4 was submitted to EPD addressing RRS calculations, Site Conceptual Model, and Corrective Action strategy issues. EPD approved the CAP conditionally on April 21, 2006.

Subsequent data collection and data presentation on October 6, 2006 led to the final conditional approval of RRS calculations for lead and arsenic. ERM submitted the final response to the conditional approval on March 30, 2007 and also submitted subsequent Corrective Action schedule modifications. EPD further provided comments to the sampling program and other correspondence on July 30, 2007.

ERM agreed with EPD comments and resolved all outstanding issues in a final October 19, 2007 correspondence.

3.4

CAP PLANNING AND COORDINATION

After final correspondence relating to RRS was completed, Corrective Action Planning and coordination began. Mobilization for corrective action was planned for October, 2007. Detailed work plans, coordination and communications with subcontractors, and Health and Safety Planning were conducted prior to mobilization.

In October, 2007 ERM mobilized to the site and began excavation activities for arsenic and lead impacted soils in eight areas of the site (Area A through Area I). Removal activities conducted in 2007 are described in Section 4.0.

The Final CSR for Metals in Soil was submitted to EPD on December 9, 2009. Comments on the Final Compliance Status Report (CSR) for Metals in Soil were provided by EPD on April 2, 2010. A letter was submitted on May 26, 2010 requesting an extension to the May 31, 2010 deadline for submittal of comment response and a Revised CSR. A comment response letter and Revised CSR were submitted to EPD on July 15, 2010.

Additional soil sampling conducted as requested in Comment #1 of the April 2, 2010 EPD comment letter identified the need for additional remediation activities in Area D. The additional sampling and excavation activities conducted in 2010 in response to Comment #1 of the April 2, 2010 EPD comment letter are described in Section 5.0.

The following sections describe the corrective action activities conducted at the Site related to metals in soil between 2007 and 2010.

4.0 2007 CORRECTIVE ACTION ACTIVITIES

4.1 REMEDIAL ACTION GOALS

The goals of the removal action were to remove soils that had concentrations of arsenic and lead above approved RRS and ensure the proper transportation and disposal of these soils. RRS for the Site were presented in ERM's *"Response to Conditional Approval of RRS, Colonial Terminals Plant No. 2"* (April 30, 2007) and approved by EPD. RRS for lead and arsenic in the shallow horizon (0-2 feet bgs) were established as 930 and 38.1 mg/kg, respectively. RRS for lead and arsenic in soils below 2 feet were established as 1560 and 326 mg/kg, respectively. Results of soil confirmation sampling are detailed in Section 5.4.

Samples of stockpiled soil were collected and analyzed to ensure that the material was not characteristically hazardous. Soils with arsenic and lead concentrations of 5.0 milligrams per liter (mg/L) or greater based on Toxicity Characteristic Leaching Procedure (TCLP) are considered characteristically hazardous wastes (D004 and D008, respectively). A description of stabilization procedures used on soils that "failed" TCLP analyses is provided in Section 4.7.

4.2 SAFETY PLANS AND PERMITS

Prior to mobilizing to the Site, ERM prepared a Site specific Health and Safety Plan (HASP). The HASP detailed hazard identification and control, personal protective equipment, decontamination procedures, spill containment and emergency response plans.

An Erosion and Sedimentation Control Plan and Land Disturbance Permit were submitted to Chatham County on September 18, 2007. The Land Disturbance Permit (#1995-075) was approved on October 9, 2007. The permit was kept on-site during construction activities. On October 22, 2007 ERM submitted a notice of intent to discharge storm water associated with Site activities under the Georgia General National Pollutant Discharge Elimination System (GAR 100001).

4.3 MOBILIZATION AND SITE PREPARATION

On October 22, 2007, ERM and the excavation contractor, Moran Environmental Services (Moran), mobilized to the Site. Moran coordinated the installation of erosion and sediment control devices prior to the initiation of soil excavation activities. Procedures to be employed were detailed in ERM's General Development Plan dated, August 23, 2007 and were in general accordance with Georgia's Erosion and Sediment Control Act.

4.4 SURVEYING

Prior to construction ERM contracted a local surveying company to establish baseline sample locations, the former sampling grid, the location of the drainage outfall, and the Type 5 area boundaries. The data were used to guide initial excavations and establish known locations where data exceeded the RRS concentrations.

During construction ERM surveyed the extent of each excavation area using a portable global positioning system (GPS) unit. Survey data was downloaded and used to establish the excavation limits in each area of the Site. Appendix A presents the GPS survey information.

4.5 EXCAVATION AND STOCKPILING ACTIVITIES

A Site excavation plan showing the extent of each area of excavation across the site is provided as Figure 4-1. During the excavation activities a Niton XLT XRAY tube Metal Analyzer was used to field estimate lead and arsenic concentrations in the soil. These estimates were used to establish the preliminary limits of excavations. The final limits of the excavations were established based on the results of soil confirmation sample analyses (see Section 5.0).

Excavation and stockpiling activities were conducted by Moran under the direction of ERM. A total of 29 stockpiles were used to stage excavated material pending receipt of waste characterization data. Stockpile volumes ranged from approximately 300 cubic yards to 1000 cubic yards. The perimeter of each soil stockpile area was lined with hay bales. The hay bales and ground surface within the soil stockpile area were covered with plastic sheeting prior to placement of impacted soil. Stockpiles were

staged within four stockpile staging areas. As each stockpile was removed from site, another stockpile was constructed within the stockpile four stockpile staging areas, resulting in a total of 29 soil stockpiles. The locations of each of the four stockpile staging areas are depicted on Figure 4-1.

4.6 *SOIL STOCKPILE SAMPLING*

Composite soil samples were collected from each stockpile for waste characterization. A minimum of 5 aliquots were collected at random locations within the stockpile. The aliquots were composited thoroughly prior to analytical testing. Samples were submitted to Avery Laboratories and Environmental Services of Savannah, Georgia for TCLP arsenic and TCLP lead analyses.

TCLP analytical results, summarized in Table 4-1, indicated that soils in stockpiles B5, B6, B10, F3, G1, G2 and G3 initially exceeded the characteristically hazardous regulatory limit of 5.0 mg/L for lead. These soils required on-site stabilization prior to disposal. Laboratory analytical reports are provided in Appendix B. Soil stabilization procedures are detailed in Section 4.7. Additional testing was conducted for each pile after stabilization activities were conducted to ascertain removal of the hazardous characteristic.

4.7 *TRANSPORTATION AND DISPOSAL*

Once stockpiles were cleared for disposal the impacted media was loaded onto tandem axle dump vehicles suitable for transportation of non-hazardous solid waste. Once loaded, all soil was transported to Waste Management's Superior Landfill in Savannah, Georgia. A total of 1,256 loads, totaling 23,415.7 tons of soil were transported to the landfill for disposal. A breakdown of the totals is provided as follows:

- 166 loads totaling 3164.3 tons were removed from Area A
- 356 loads totaling 6404.6 tons were removed from Area B
- 9 loads totaling 174.2 tons were removed from Area C
- 61 loads totaling 1159.5 tons were removed from Area D
- 7 loads totaling 133.5 tons were removed from Area E
- 409 loads totaling 7900.1 tons were removed from Area F

- 91 loads totaling 1751.4 tons were removed from Area G
- 157 loads totaling 2728.3 tons were removed from Area I.

A detailed list of waste managed is provided in Table 4-2. Waste disposal certificates and haul tickets are provided in Appendix C.

4.8 SOIL STABILIZATION ACTIVITIES

Soil stabilization activities were conducted by Moran Environmental and Severson Environmental Services, Inc. and overseen by ERM. The stabilization process consisted of applying approximately 7850 gallons of MAECTITE® liquid reagent to approximately 5048 tons of soil (approximate 1% dosage rate). The MAECTITE® chemical process converts leachable lead and other heavy metals to non-leachable mixed mineral forms in the apatite and barite mineral groups. Leachable lead cations react with the MAECTITE® reagents and form compounds that nucleate crystals in hexagonal and twinned orthorhombic (pseudo-hexagonal) geometries. As a true chemical process, lead in soil and solid waste is chemically altered. Since the MAECTITE® processed lead is not physically immobilized as part of a mixture (e.g., cements, pozzolans, silicates, hydroxides), it cannot be released as a result of exposure to physical forces. Changes in pH will not cause the lead to be leachable. As a dehydration process, MAECTITE® destroys lead hydroxides and carbonates.

MAECTITE® liquid reagent was applied to the soil by means of a chemical delivery pump from drums, a bulk storage tank, or a tanker trailer. The reagent was metered through a reagent delivery pump for monitoring the quantity of reagent applied to a specific stockpile. The liquid was applied manually with a specialized spray nozzle to the surface of a grid to be processed. After the reagents and water were applied to the surface and have permeated the target grid, the soils were mixed to homogeneity with an excavator.

The treated soil was allowed to “treat” for at least five hours before re-sampling was performed. Analytical results of the stockpile mix samples (B5 mix, B6 mix, B10 mix, F3 mix, G1R, G2R, and G3 mix) treated with MAECTITE® indicate that the stabilization procedure was effective in reducing TCLP lead concentrations to below 5.0 mg/L. TCLP analytical results are summarized in Table 4-1.

4.9

SITE RESTORATION

Once all excavation activities were complete and confirmation data indicated compliance with RRS criteria, site restoration activities were conducted. Site restoration consisted of backfilling, compacting, grading, and planting vegetation in areas where excavation had occurred and surface disturbance existed. Three hundred ninety-five (395) loads of backfill material were brought on-site.

Prior to receipt of the first shipment of backfill material, ERM collected two samples from the backfill source to ensure that all material brought on-site was free of contaminants. Table 4-3 presents the results of the backfill analytical testing.

Fill material was applied in lifts of approximately 6 to 12-inches. On deeper excavations in areas A, F and G, fill material was applied in lifts of approximately 24-inches until a depth of 4 feet was obtained then lifts of 6-to-12 inches were applied. Lifts were compacted with Site equipment (excavators, dozers and rollers). This process was followed until the excavations had been returned to original grade. The excavated areas were sloped to match existing conditions.

The gravel road was replaced/ repaired following completion of backfill and grading operations. Twenty-nine (29) loads of crusher run were transported on-site for use in road restoration.

4.10

PHOTOGRAPHY AND POST-CONSTRUCTION ACTIVITIES

Photographs of activities conducted throughout this phase of work are provided in Appendix D. Since demobilization, ERM has contacted the permitting authorities and requested the permits to be closed. In addition, ERM has collected all waste disposal documentation and prepared this CSR in an effort to complete the project on behalf of the RPs.

5.0 2011 CORRECTIVE ACTION ACTIVITIES

5.1 REMEDIAL ACTION GOALS

The goals of the removal action were to remove soils that had concentrations of arsenic and lead above approved RRS and ensure the proper transportation and disposal of the soils. The removal action was conducted in response to Comment #1 in the April 2, 2010 correspondence from the EPD regarding the Compliance Status Report (CSR) for metals in soil submitted on April 23, 2009. Comment #1 of the April 2, 2010 correspondence requested additional confirmation soil sampling for arsenic exceedances near the Area D excavation. Sampling activities are described in Section 5.2.

An exceedance of the RRS for arsenic was identified in the confirmation sample collected near the Area D excavation. Consequently, ERM conducted additional excavation activities in Area D. Excavation activities conducted in 2010 in Area D are described throughout Section 5.0.

RRS for the Site were presented in ERM's *"Response to Conditional Approval of RRS, Colonial Terminals Plant No. 2"* (April 30, 2007) and approved by EPD. RRS for lead and arsenic in the shallow horizon (0-2 feet bgs) were established as 930 and 38.1 mg/kg, respectively. RRS for lead and arsenic in soils below 2 feet were established as 1560 and 326 mg/kg, respectively. Results of soil confirmation sampling are detailed in Section 5.4.

Samples of stockpiled soil were collected and analyzed to ensure that the material was not characteristically hazardous. Soils with arsenic and lead concentrations of 5.0 milligrams per liter (mg/L) or greater based on Toxicity Characteristic Leaching Procedure (TCLP) are considered characteristically hazardous wastes (D004 and D008, respectively).

5.2 AREA D SOIL SAMPLING ACTIVITIES

In response to Comment #1 of the April 2, 2010 EPD correspondence regarding the Compliance Status Report (CSR) for metals in soil submitted on April 23, 2009, three additional soil samples (D-HA-1, H-HA-2, and D-HA-3) were collected adjacent to sample D-2-SW-E on June 16, 2010. The samples were collected at a depth of approximately 1.5 feet below ground surface.

One of the samples (D-HA-1), collected approximately 5 feet south of sample D-2-SW-E, exceeded the RRS for arsenic. Arsenic concentrations in samples D-HA-2 and D-HA-3, collected approximately 5 feet south and 5 feet east of sample D-HA-1 respectively, were below the RRS. No exceedances for lead were identified in any of the three samples collected in June 2010. Sample results are included in Table 6-1. Laboratory analytical reports are provided in Appendix B.

Based on the June 2010 sampling results in Area D, an approximately 8 foot by 8 foot area was planned for excavation to a depth of 2 feet.

5.3 SAFETY PLANS AND PERMITS

Prior to mobilizing to the Site, ERM prepared a Site specific Health and Safety Plan (HASP). The HASP detailed hazard identification and control, personal protective equipment, decontamination procedures, spill containment and emergency response plans.

The area scheduled for excavation in Area D was approximately 16 square feet. Because the proposed disturbed area was less than 1 acre in area, an Erosion and Sedimentation Control Plan and Land Disturbance Permit were not required.

5.4 MOBILIZATION AND SITE PREPARATION

On November 8, 2010, ERM mobilized to the Site. Subsurface clearance procedures were followed in the excavation area in accordance with the approved site Health and Safety Plan. A private utility locator was subcontracted to identify utilities within the excavation area using an electromagnetic pipe locator and ground penetrating radar. No utilities were identified in the excavation area.

5.5 SURVEYING

Prior to excavation, ERM contracted a local surveying company to establish baseline sample locations, the former sampling grid, the location of the drainage outfall, and the Type 5 area boundaries. The data were used to guide initial excavations and establish known locations where data exceeded the RRS concentrations.

During excavation ERM contracted a local surveying company to document the extents of the excavation area. The survey information is included in Appendix A.

5.6 EXCAVATION AND STOCKPILING ACTIVITIES

A Site excavation plan showing the extent of the area of excavation across the site is provided as Figure 4-1. During the excavation activities a Niton XLT XRAY tube Metal Analyzer was used to field estimate lead and arsenic concentrations in the soil. These estimates were used to establish the preliminary limits of the excavation. The final limits of the excavation were established based on the results of soil confirmation sample analyses (see Section 6.0).

Soil excavated from Area D in 2010 was placed directly into a polyethylene lined roll off box provided by Waste Management. Two roll off boxes were required to store the excavated soil until sampling results were received to allow for off site disposal.

5.7 SOIL STOCKPILE SAMPLING

Composite soil samples were collected from each stockpile for waste characterization. A minimum of 5 aliquots were collected at random locations within the stockpile. The aliquots were composited thoroughly prior to analytical testing. Samples were submitted to Avery Laboratories and Environmental Services of Savannah, Georgia for TCLP arsenic and TCLP lead analyses.

TCLP analytical results, summarized in Table 4-1, indicated that soils excavated from Area D did not exceed the characteristically hazardous regulatory limit for lead or arsenic. Laboratory analytical reports are provided in Appendix B.

5.8 TRANSPORTATION AND DISPOSAL

Once stockpiles were cleared for disposal the two roll off boxes of impacted media was transported to Waste Management's Superior Landfill in Savannah, Georgia. A total of 40 cubic yards of impacted soil was transported to the landfill for disposal. A detailed list of waste

managed is provided in Table 4-2. Waste disposal certificates and haul tickets are provided in Appendix C.

5.9 *SITE RESTORATION*

Once all excavation activities were completed and confirmation data indicated compliance with RRS criteria, site restoration activities were conducted. Site restoration consisted of backfilling, compacting, and grading where excavation had occurred and surface disturbance existed. Approximately 11 cubic yards of backfill material were brought on-site.

Fill material was applied in lifts of approximately 6 to 12-inches. Lifts were compacted with Site equipment (excavators). This process was followed until the excavations had been returned to original grade. The excavated areas were sloped to match pre-existing conditions.

5.10 *PHOTOGRAPHY AND POST-CONSTRUCTION ACTIVITIES*

Photographs of activities conducted throughout this phase of work are provided in Appendix D. ERM has collected all waste disposal documentation and prepared this CSR in an effort to complete the project on behalf of the RPs.

6.0 CONFIRMATION/COMPLIANCE SAMPLING

6.1 PURPOSE

Soil samples were collected from the base and sidewalls of each excavation to ensure that all soil exceeding RRS for lead and arsenic was removed and that compliance with RRS for arsenic and lead was achieved. Samples were submitted to Avery Laboratories, and Environmental Services of Savannah, Georgia for total arsenic and total lead analyses. Laboratory analytical results are summarized in Table 6-1 and provided in Appendix B.

6.2 RISK REDUCTION STANDARDS

RRS for lead and arsenic in the shallow horizon (0-2 feet bgs) were calculated as 930 and 38.1 mg/kg, respectively. RRS for lead and arsenic in soils below 2 feet bgs were established as 1560 and 326 mg/kg, respectively. Soil RRS for lead and arsenic were presented in ERM's "Response to Conditional Approval of RRS, Colonial Terminals Plant No. 2" (April 30, 2007) and approved by EPD.

6.3 SAMPLING AND ANALYTICAL PROCEDURES

6.3.1 *Sampling Methods*

Soil samples were collected from the base and sidewalls of each excavation using a stainless steel sampling spoon. Samples collected below a depth of 4-feet bgs were collected from the excavator bucket because entering excavations of depths greater than 4-feet requires that a confined space entry permit be prepared per ERM's health and safety policies. All sampling equipment was decontaminated prior to use at different locations in accordance with specifications outlined in the HASP.

6.3.2 *Field Analytical or Measurement Techniques*

In order to reduce the number of samples submitted to the analytical laboratory ERM conducted field analyses of soil samples using a Niton XLt XRAY Tube Metal Analyzer. Field sample analyses were used as a guideline to establish the limits of soil exceeding RRS for arsenic and lead.

Confirmation samples were collected for laboratory analyses to ensure that compliance with RRS had been achieved. Sample collection rates for the confirmation samples were consistent with those discussed in the approved CAP. Laboratory analytical results are discussed in Section 5.4.

6.3.3 *Sample Handling and Preservation Techniques*

Following collection, soil samples were labeled with a unique sample I.D., date and time of analyses, sampler's initials and analyses requested. Samples were then placed into a cooler and maintained in a secure location pending transport to the analytical laboratory.

6.3.4 *Chain-Of-Custody Procedures*

Chain-of-Custody documentation was employed throughout the sampling event. Upon completion of sample collection, the sample I.D., date and time of collection, sampler's initials, analyses requested and turnaround time requested were logged on a chain-of-custody form. The form was kept with the sample team leader until the samples were relinquished to the laboratory. Upon relinquishment, the sample team leader and receiver of the samples signed the chain-of-custody form and the sample team leader kept one copy of the form.

6.3.5 *Laboratory Analytical Techniques*

Samples were analyzed for total lead and arsenic using EPA Method 6010B. Samples were analyzed on a 24-hour turnaround time basis. Analytical results on an area basis are discussed below. Analytical results are summarized in Table 6-1 and analytical reports are provided in Appendix C.

6.4 *COMPLIANCE WITH RISK REDUCTION STANDARDS*

Each of the areas at the site were sampled specifically to comply with RRS criterion. In specific situations sampling was not conducted, as follows:

- Type 5 RRS Areas – The agreed Type 5 areas were not sampled based on previous correspondence. Type 5 areas at the site include the seawall and the process rail lines present at the site.
- Former drainage improvement project – Four areas (A,B,G, and H) of the site abut the former drainage improvement project. When excavating in these areas, visual observation (based on differing

soil types was evident in the field) was used to identify when the drainage improvement backfill was encountered. ERM conducted field screening with the Niton instrument to confirm low concentrations of lead and arsenic and ceased further excavation of clean soils. Confirmation samples of the walls adjoining the backfill were not collected.

Final confirmation samples are presented on Figure 6-1. Confirmation samples that did not pass RRS criterion are not shown because the soil associated with failed samples has been excavated. Confirmation sampling for each area is more specifically described below.

Type 5 RRS Area Description

The areas of the site that are held to Type 5 RRS are described in detail in the Corrective Action Plan (CAP) 4th Revision submitted to EPD on October 24, 2005. The October 2005 CAP 4th Revision was approved by EPD in a letter dated April 21, 2006. The Type 5 RRS areas were selected to maintain the critical operating infrastructure in place at the site. The following Type 5 RRS areas were detailed in the October 2005 CAP 4th Revision:

1. Areas within 12 feet of the railroad centerline where excavation could result in loss of structural integrity of the tracks; and
2. Deep soil adjacent to retaining walls and loading docks along the Savannah River.

Engineering and institutional controls are in place for the Type 5 RRS areas. Engineering controls include signage to identify Type 5 RRS and ground cover to prevent exposure of surface soils. Annual monitoring for long term maintenance will be conducted for the Type 5 RRS areas. A Restrictive Covenant for the site including a survey of the Type 4 and 5 areas and an excavation policy to ensure compliance with post-remedial engineering and institutional controls has been prepared. More details regarding engineering and institutional controls are provided in Sections 5.5 and 5.6.

6.4.1

Area A

Soil samples were collected from the base and sidewalls of excavation A. The sidewall sample collected from the north wall at a depth of 0-2 feet bgs (A1-W-N) had a reported arsenic concentration of 63 mg/kg, which exceeded the RRS of 38.1 mg/kg. ERM visually inspected the area, removed visually contaminated media, and resampled the area. The re-

sample contained a reported arsenic concentration of 4.7 mg/kg. Sample A3-W-S had reported arsenic concentrations exceeding RRS. These areas were over-excavated to remove soils exceeding RRS. Other floor and sidewall samples were below applicable RRS. Sample locations are provided on Figure 6-1 and analytical data are summarized in Table 6-1.

6.4.2 *Area B*

Area B was designated as an area where long term post verification monitoring would occur. As a result soil was excavated to a depth of 2 feet only. Also, no base of excavation samples were collected. Soil samples were collected from the sidewalls of excavation B. The following sidewall samples collected at a depth of 0-2 feet bgs exceeded the RRS of 38.1 mg/kg for arsenic: 1067W (130 mg/kg), 1086W (74 mg/kg), 1058W-S (55 mg/kg), B1-SUP-WN (40 mg/kg) and B2-SUP-WS5 (50 mg/kg). Additionally, the lead RRS of 930 mg/kg was exceeded in the 0-2 feet bgs samples collected from 1067W (1500 mg/kg) and 1058W-S (1500 mg/kg).

In order to delineate the extent of impacts exceeding RRS and achieve compliance with remediation goals, ERM instructed the excavation contractor to extend the excavation outward in areas where exceedances of RRS were documented. Following over-excavation, additional samples were collected for analyses.

Sample 1067W-R was collected to confirm that soil exceeding RRS for arsenic and lead in the vicinity of sample 1067W was removed. Laboratory analytical results indicated that the lead concentration in 1067W-R (570 mg/kg) was below the RRS but that the arsenic concentration (50 mg/kg) exceeded the RRS of 38.1 mg/kg. Over-excavation in the vicinity of sample 1067W-R resulted in the sample location being eliminated. Soils in this location were excavated in conjunction with soils excavated in area B1-SUP and the area was completely removed.

Sample locations are provided on Figure 6-1 and analytical data are summarized in Table 6-1.

6.4.3 *Area C*

Soil in Area C was excavated to a depth of approximately 5.5 feet bgs. Confirmation samples were collected from the base of the excavation (C-floor) and a depth of 5.5 feet bgs and from the sidewalls (C-W-E, C-W-N, C-W-S, and C-W-W) and submitted for total arsenic and lead analyses. Laboratory results indicated that all samples were below RRS except for

C-W-W which had a reported arsenic concentration (380 mg/kg) that exceeded the RRS of 326 mg/kg.

In order to ensure that all soils exceeding RRS were removed, the excavation was extended outward from the location that sample C-W-W was collected. Sample C-W-W(R) was collected on December 12, 2007 and met RRS standards. Sample locations are provided on Figure 6-1 and analytical data are summarized in Table 6-1.

6.4.4

Area D

2007 Excavation Activities

Soil in Area D was excavated to a depth of approximately 2.5 feet bgs. Five samples were collected from the base of the excavation and had reported arsenic and lead concentrations below the RRS. Seven sidewall samples were collected from Area D at a depth of 0-2 feet bgs. All samples except samples D-berm and D-2-SW-E-2 were below RRS.

The excavation was extended outward in the areas where arsenic concentration (42 and 230 mg/kg, respectively) exceeding RRS were documented. Analyses of confirmation samples D-Berm-W-S and D-2R-W-E indicated that arsenic (31 and 18 mg/kg, respectively) and lead (300 and 160 mg/kg, respectively) concentrations were below RRS and that all soil exceeding RRS had been removed.

2010 Excavation Activities

The Area D excavation was extended to the south adjacent to sample D-2-SW-E. The final extent of the additional excavation were 10.5 feet by 9.5 feet. The 2010 Area D excavation extended to a depth of 3 feet bgs.

Five samples were collected from the base of the excavation and had reported arsenic and lead concentrations below the RRS. Seven side wall samples were collected at a depth of 0-2 feet bgs. All of the side wall samples were below RRS.

Sample locations are provided on Figure 6-1 and analytical data are summarized in Table 6-1.

6.4.5

Area E

Area E was excavated to a depth of approximately 5.5 feet bgs. Samples were collected at one floor location and from each sidewall. Analytical results indicated that all samples had arsenic and lead concentrations

below RRS. Sample locations are provided on Figure 6-1 and analytical data are summarized in Table 6-1.

6.4.6 *Area F*

Soil in Area F was excavated to depths ranging from approximately 2 to 8 feet bgs. Floor samples were collected to ensure that adequate soil removal had occurred to meet RRS for lead and arsenic. Laboratory analytical results of floor samples indicated no exceedances of RRS for lead and arsenic except for the 8 feet bgs sample collected at location F5-Floor. This area was re-sampled following over-excavation on December 17, 2007 and results were below RRS for lead (14 mg/kg).

Seventeen sidewall samples were collected in Area F to ensure the lateral removal of soils exceeding RRS. Laboratory analytical results of sidewall samples indicated no exceedances of RRS for lead and arsenic except for the 2-5 foot sample collected at F-3-W-N which exceeded the RRS for lead (1,700 mg/kg) and the 5-8 foot sample collected at F4 W-N which exceeded the RRS for lead. The excavation was extended outward from F-3-W-N to the property line to ensure removal of Site soils exceeding RRS for lead. The soil surrounding the lead exceedance documented at sample location F4 W-N was excavated on a slope ranging from 2 feet (to the north) and 8 feet (to the south) guided by the field XRF instrument. Sample locations are provided on Figure 6-1 and analytical data are summarized in Table 6-1.

6.4.7 *Area G*

Area G was excavated to a depth of approximately 5 feet bgs. Five floor samples were collected analytical results indicated that all samples had arsenic and lead concentrations below RRS. Sidewall samples were collected around the perimeter of the excavation. Analytical results of sample G1-NW, 1010SW, and G-N-SW, indicated that the arsenic (1100, 160, and 99 mg/kg, respectively) and lead concentrations (17,000, 1400 and 1400 mg/kg, respectively) exceeded the RRS of 326 and 1560 mg/kg, respectively. Additionally, the lead concentration in sample G5-W-E (1900 mg/kg) exceeded the RRS.

The excavation was extended outward beyond the sidewall samples that had reported RRS exceedances to remove all material exceeding RRS or until the property boundary was reached. Additional sidewall samples were collected at areas where the excavation limits remained on-site, to confirm that over-excavation activities successfully removed soils with arsenic and lead concentrations exceeding RRS.

Sample G2NE (collected from 0 to 3 feet bgs) presented a lead concentration of 2,100 mg/kg and an arsenic concentration of 96 mg/kg, both of which exceed the 0 to 2 foot bgs RRS. Sample G2NE was collected at the northeast property boundary. Site access to the northeastern property by the property owner has been refused. Consequently, the excavation was not extended any further to the northeast.

Sample locations are provided on Figure 6-1 and analytical data are summarized in Table 6-1.

6.4.8 *Area I*

Area I was excavated to depths ranging from approximately 2 to 5 feet bgs. Nine floor samples were collected from the base of the excavation. Laboratory analyses of the floor samples indicated that arsenic and lead concentrations were below RRS in all samples and therefore the extent of soil with impacts exceeding RRS had been established vertically.

The reported arsenic concentration in sidewall samples collected from 0 to 2 feet bgs in samples I2-W (70 mg/kg), I3-W-N (50 mg/kg), and I5-W-N (57 mg/kg) exceeded the RRS of 32.6 mg/kg. Additionally the lead concentration in I2-W (1500 mg/kg) exceeded the RRS of 930 mg/kg for the 0-2 feet bgs interval. Sample locations I9-W-N and I3-W-W were collected to replace the exceedance at sample locations I3-W-N and I2-W.

The excavation was extended outward beyond the sidewall samples that had reported RRS exceedances, as site conditions allowed, to remove all material exceeding RRS. Excavation activities were limited to the south due to the presence of railroad tracks. Laboratory analytical results of soil samples collected following additional excavation indicate that all samples were below RRS for arsenic and lead and therefore all soils exceeded RRS had been removed.

Sample locations are provided on Figure 6-1 and analytical data are summarized in Table 6-1.

6.5 ***LONG TERM POST VERIFICATION MONITORING***

In order to ensure that soils remaining in place do not pose a threat to ground water quality, post verification sampling will be performed at the site. Groundwater samples will be collected from MW-3, MW-6, MW-9D, MW-12, and MW-18 through MW-28 and submitted for total lead and arsenic analyses. Well Locations are provided on Figure 6-2.

Monitoring will be conducted in conjunction with the monitoring schedule identified in the October 2008 Revised Corrective Action Plan for Volatile Organic Compounds, or subsequent revisions.

A baseline sampling event was conducted in the first half of 2008. Samples will be collected at two year intervals, following baseline sampling, during the first five years of monitoring (three sampling events). Wells may be proposed for addition or removal from the well network based upon the results of ground water samples.

6.6 EXCAVATION POLICY AND LEGAL DESCRIPTIONS

An excavation policy has been prepared to ensure compliance with post-remedial engineering and institutional controls implemented at the site. A copy of the Restrictive Covenant for the site including a survey of the Type 4 and 5 areas and a copy of the excavation policy is provided in Appendix E.

Annual monitoring for long term maintenance will be conducted in January of each calendar year following approval of this CSR for soil. Annual monitoring includes visual inspection of the site for changes in land use and signs of soil erosion. Reevaluation of worker exposure to the soils on site which exceed the Type 4 and Type 5 RRS and certification that the institutional controls established at the site remain in place are also included in annual monitoring. The annual monitoring form for long term maintenance is provided in Appendix F.

Tables

Table 3-1
Record of Submittals and Correspondence
Colonial Terminals - HSI No. 10098
Savannah, Georgia

Item	Author	Recipient	Date	Topic
1	NUS	EPA Region IV	1/15/1986	Site Screening Investigation (SSI) report
2	ERM	Georgia Environmental Protection Division	9/30/1999	CSR Submittal
3	Georgia Environmental Protection Division	Colonial Terminals, Inc.	2/4/2000	NOD for CSR
4	ERM	Georgia Environmental Protection Division	3/22/2000	Response to NOD of 2/4/00
5	ERM	Georgia Environmental Protection Division	5/30/2000	Report of Background Soil Concentrations
6	Colonial Terminals, Inc.	Georgia Environmental Protection Division	7/5/2000	Notification of flood relief project
7	Georgia Environmental Protection Division	Colonial Terminals, Inc.	9/22/2000	Response to CSR NOD and Report of
8	ERM	Georgia Environmental Protection Division	10/31/2000	Response to EPD letter of 9/22/2000
9	Colonial Terminals, Inc.	Georgia Environmental Protection Division	12/6/2000	HSRA Release Notification for Westside Flood Relief Project
10	Georgia Environmental Protection Division	Colonial Terminal, Inc.	12/20/2000	NOD response to letter of 10/31/2000
11	ERM	Georgia Environmental Protection Division	2/28/2001	Response to NOD of 12/20/2000
12	Georgia Environmental Protection Division	ERM	3/30/2001	Concurrence with list of regulated substances for investigation at Site
13	ERM	Georgia Environmental Protection Division	7/9/2001	Submittal of revised Background study
14	Georgia Environmental Protection Division	ERM	8/28/2001	Concurrence with background levels
15	ERM	Georgia Environmental Protection Division	12/17/2001	Transmittal of CSR Addendum
16	ERM	Georgia Environmental Protection Division	1/10/2002	Retransmittal of CSR Addendum (EPD lost 12/17/01 copy)
17	Georgia Environmental Protection Division	Colonial Terminals, Inc.	6/12/2002	Comments on CSR
18	ERM	Georgia Environmental Protection Division	7/8/2002	Report to EPD on Access to Hunt Wesson property
19	ERM	Georgia Environmental Protection Division	8/23/2002	Letter to EPD re: EPD 6/12/02 letter
20	Georgia Environmental Protection Division	Colonial Terminals, Inc.	9/3/2002	EPD letter re: site access
21	ERM	Georgia Environmental Protection Division	9/13/2002	Letter to EPD re: site access
22	ERM	Georgia Environmental Protection Division	11/27/2002	Corrective Action Plan (CAP)
23	ERM	Georgia Environmental Protection Division	1/31/2003	CAP Revision 1
24	Georgia Environmental Protection Division	ERM	8/18/2003	NOD on CAP
25	ERM	Georgia Environmental Protection Division	12/15/2003	CAP Revision 2
26	Georgia Environmental Protection Division	ERM	3/5/2004	EPD Letter RE: RRS
27	ERM	Georgia Environmental Protection Division	4/16/2004	Response to EPD Letter of 3/5/04
28	Georgia Environmental Protection Division	ERM	10/22/2004	NOD RE: 12/03 CAP Addendum
29	Meeting with EPD		12/9/2004	10/24/04 NOD
30	Georgia Environmental Protection Division	Colonial Terminals, Inc.	1/19/2005	Type 4 site-specific criteria in response to 12/9/04 meeting
31	ERM	Georgia Environmental Protection Division	4/30/2005	CAP Revision 3
32	ERM	Georgia Environmental Protection Division	6/3/2005	Letter regarding Kd/DAF based on new wells
33	ERM	Georgia Environmental Protection Division	9/19/2005	Letter to Alex Cleary regarding Leachate Formation
34	ERM	Georgia Environmental Protection Division	10/24/2005	CAP Revision 4
35	Georgia Environmental Protection Division	Colonial Terminals, Inc.	4/21/2006	CAP Approval Letter
36	ERM	Georgia Environmental Protection Division	2/6/2006	Performance Standards Verification (PSV) Report
37	Georgia Environmental Protection Division	ERM	2/26/2007	Conditional Approval of RRS for Metals and LTPVM Program
38	ERM	Georgia Environmental Protection Division	2/27/2007	UIC Pilot Permit Application
39	ERM	Georgia Environmental Protection Division	3/30/2007	Response to Conditional Approval
40	ERM	Georgia Environmental Protection Division	4/30/2007	Response to Conditional Approval of RRS
41	Georgia Environmental Protection Division	Colonial Terminals, Inc.	5/31/2007	NOV for VOCs
42	Georgia Environmental Protection Division	Colonial Terminals, Inc.	6/29/2007	Resolution of NOV for VOCs
43	ERM	Georgia Environmental Protection Division	6/29/2007	Modified CAP Schedule for Mobilization for Soils Remediation
44	Georgia Environmental Protection Division	ERM	7/30/2007	Final Comments to PSV Report
45	ERM	Georgia Environmental Protection Division	10/19/2007	GW Design and CAP Supplement - Treatment of VOCs and Metals
46	ERM	Georgia Environmental Protection Division	10/25/2007	Modified UIC Pilot for VOCs and Metals
47	Georgia Environmental Protection Division	ERM	10/26/2007	EPD GW CAP - Pilot Approval
48	ERM	Georgia Environmental Protection Division	12/14/2007	Revised CAP for VOCs
49	ERM	Georgia Environmental Protection Division	12/9/2009	Final CSR for Metals in Soil
50	Georgia Environmental Protection Division	ERM	4/2/2010	Comments on Final Compliance Status Report (CSR) for Metals in Soil
51	ERM	Georgia Environmental Protection Division	5/26/2010	Response to Comment Extension Request
52	ERM	Georgia Environmental Protection Division	7/15/2010	Response to April 2, 2010 Comments on Final CSR for Metals in Soil
53	ERM	Georgia Environmental Protection Division	2/28/2011	Revised CSR for Metals in Soil

Table 4-1
Results of TCLP Analyses - Stockpile Samples
Colonial Terminals
Savannah, GA
HSI Site 10098

Date	Sample ID	Area	Lab (mg/L)		TCLP Result	Field Decision/Notes
			As	Pb		
10/25/07	SP-1B	B	0.1	4.6	TCLP Results passed < 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
10/29/07	SP-2B	B	<0.1	1.7	TCLP Results passed < 5 mg/L	TCLP OK - Issue Stockpile Disposition form, shipped
10/30/07	SP-1G	G	<0.1	7.7	TCLP 7.7 mg/L Pb > Criterion	Stabilization Action Conducted see sample G1-R results
11/12/07	SP-G1-R	G	0.95	<0.05	TCLP Results passed < 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
10/30/07	SP-3B	B			TCLP Results passed < 5 mg/L	TCLP OK - Issue Stockpile Disposition Form
10/30/07	SP-4B	B	<0.1	1.5	TCLP Results passed < 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
10/31/07	SP-B5	B	<0.1	5.2	TCLP 5.2 mg/L Pb > Criterion	Stabilization Action Conducted see sample B5-Mix Results
11/9/07	SP-B5 Mix	B	0.6	0.16	TCLP Results passed < 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
10/31/07	SP-G2	G	<0.1	32	TCLP 32 mg/L Pb > Criterion	Stabilization Action Conducted see sample G2-R results
11/12/07	SP-G2-R	G	0.95	0.21	TCLP Results passed < 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
11/1/07	SP-G3	G	<0.1	13	TCLP 13 mg/L Pb > Criterion	Stabilization Action Conducted see sample G3-Mix results
11/9/07	SP-G3 Mix	G	0.4	0.14	TCLP Results passed < 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
11/4/07	SP-D1	D	<0.1	0.081	TCLP Results passed < 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
11/4/07	SP-D2	D	<0.1	1.2	TCLP Results passed < 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
11/6/07	SP-F1	F	<0.1	0.35	TCLP Results passed < 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
11/6/07	SP-G4	G	<0.1	0.25	TCLP Results passed < 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
11/9/07	SP-B6	B	<0.10	7.3	TCLP 7.3 mg/L Pb > Criterion	Stabilization Action Conducted, see sample B6-Mix results
11/27/07	B6-MIX	B	0.3	0.21	TCLP Results passed < 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
11/13/07	SP-I1	I	<0.1	0.079	TCLP Results passed < 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
11/14/07	SP-B7	B	<0.1	1	TCLP Results passed < 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped

Table 4-1
Results of TCLP Analyses - Stockpile Samples
Colonial Terminals
Savannah, GA
HSI Site 10098

11/14/07	SP-I2	I	<0.1	<0.050	TCLP Results passed< 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
11/15/07	SP-G5	G	<0.1	0.54	TCLP Results passed< 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
11/17/07	SP-C1	C	<0.1	0.27	TCLP Results passed< 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
11/17/07	SP-D/E	D/E	<0.1	2.2	TCLP Results passed< 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
11/26/07	SP-A	A	0.24	0.056	TCLP Results passed< 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
11/28/07	SP-A2	A	0.12	0.14	TCLP Results passed< 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
11/28/07	SP-B8	B	<0.1	1.4	TCLP Results passed< 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
11/29/07	SP-B9	B	<0.1	0.18	TCLP Results passed< 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
12/5/07	SP-B10	B	<0.1	5.4	TCLP 5.4 mg/L Pb > Criterion	Stabilization Action Conducted see sample B10-Mix results
12/11/07	SP-B10 MIX	B	0.34	0.16	TCLP Results passed< 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
12/5/07	SP-B11	B	<0.1	1.4	TCLP Results passed< 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
12/6/07	SP-F3	F	0.17	11	TCLP 11 mg/L Pb > Criterion	Stabilization Action Conducted see sample F3-Mix results
12/11/07	SP-F3 MIX	F	0.83	0.11	TCLP Results passed< 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
12/6/07	SP-F2	F	<0.1	0.5	TCLP Results passed< 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
12/11/07	SP-F4	F	0.14	0.54	TCLP Results passed< 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
12/17/07	SP-F5	F	<0.1	1.6	TCLP Results passed< 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped
11/9/10	Area D TCLP	D	<0.1	<0.05	TCLP Results passed< 5 mg/L	TCLP OK - Issue Stockpile Disposition Form, Shipped

Table 4-2
Waste Transportation and Disposal Log
Colonial Terminals
Savannah, GA
HSI Site 10098

Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
10/31/2007	584190	126-COLONIALTERMINALINC	10602953	101729GA	168	B1	17.27
10/31/2007	584187	126-COLONIALTERMINALINC	10602954	101729GA	162	B1	17.67
10/31/2007	584198	126-COLONIALTERMINALINC	10602955	101729GA	160	B1	11.59
10/31/2007	584192	126-COLONIALTERMINALINC	10602956	101729GA	173	B1	13.54
10/31/2007	584199	126-COLONIALTERMINALINC	10602957	101729GA	170	B1	12.94
10/31/2007	584201	126-COLONIALTERMINALINC	10602958	101729GA	172	B1	12.79
10/31/2007	584194	126-COLONIALTERMINALINC	10602959	101729GA	161	B1	14.5
10/31/2007	584196	126-COLONIALTERMINALINC	10602960	101729GA	164	B1	14.68
10/31/2007	584219	126-COLONIALTERMINALINC	10602961	101729GA	162	B1	15.55
10/31/2007	584220	126-COLONIALTERMINALINC	10602962	101729GA	168	B1	15.43
10/31/2007	584227	126-COLONIALTERMINALINC	10602963	101729GA	173	B1	14.59
10/31/2007	584229	126-COLONIALTERMINALINC	10602964	101729GA	170	B1	15.24
10/31/2007	584232	126-COLONIALTERMINALINC	10602965	101729GA	172	B1	14.05
10/31/2007	584243	126-COLONIALTERMINALINC	10602966	101729GA	160	B1	16.12
10/31/2007	584244	126-COLONIALTERMINALINC	10602967	101729GA	164	B1	16.21
10/31/2007	584247	126-COLONIALTERMINALINC	10602968	101729GA	161	B1	15.87
10/31/2007	584268	126-COLONIALTERMINALINC	10602969	101729GA	168	B1	15.38
10/31/2007	584273	126-COLONIALTERMINALINC	10602970	101729GA	162	B1	17.46
10/31/2007	584276	126-COLONIALTERMINALINC	10602971	101729GA	173	B1	15.18
10/31/2007	584280	126-COLONIALTERMINALINC	10602972	101729GA	170	B1	15.38
10/31/2007	584283	126-COLONIALTERMINALINC	10602973	101729GA	172	B1	14.66
10/31/2007	584285	126-COLONIALTERMINALINC	10602974	101729GA	160	B1	16.46
10/31/2007	584294	126-COLONIALTERMINALINC	10602975	101729GA	161	B1	17.46
10/31/2007	584299	126-COLONIALTERMINALINC	10602976	101729GA	164	B1	18.27
10/31/2007	584315	126-COLONIALTERMINALINC	10602977	101729GA	168	B1	16.52
10/31/2007	584316	126-COLONIALTERMINALINC	10602978	101729GA	162	B1	17.71
10/31/2007	584319	126-COLONIALTERMINALINC	10602979	101729GA	173	B1	17.93
10/31/2007	584323	126-COLONIALTERMINALINC	10602980	101729GA	170	B1	15.44
10/31/2007	584329	126-COLONIALTERMINALINC	10602981	101729GA	172	B1	17.61
10/31/2007	584341	126-COLONIALTERMINALINC	10602982	101729GA	160	B2	16.55
11/1/2007	584383	126-COLONIALTERMINALINC	10602983	101729GA	C23	B2	10.82
11/1/2007	584387	126-COLONIALTERMINALINC	10602984	101729GA	C22	B2	11.05
11/1/2007	584390	126-COLONIALTERMINALINC	10602985	101729GA	10	B2	15.94
11/1/2007	584391	126-COLONIALTERMINALINC	10602986	101729GA	HX444A	B2	8.51
11/1/2007	584394	126-COLONIALTERMINALINC	10602987	101729GA	3	B2	16.99
11/1/2007	584398	126-COLONIALTERMINALINC	10602988	101729GA	C25	B2	10.66
11/1/2007	584400	126-COLONIALTERMINALINC	10602989	101729GA	IP632K	B2	15.88
11/1/2007	584405	126-COLONIALTERMINALINC	10602990	101729GA	4	B2	13.03
11/1/2007	584420	126-COLONIALTERMINALINC	10602991	101729GA	C23	B2	15.82
11/1/2007	584424	126-COLONIALTERMINALINC	10602992	101729GA	C22	B2	15.95
11/1/2007	584426	126-COLONIALTERMINALINC	10602993	101729GA	HX444A	B2	14.87
11/1/2007	584425	126-COLONIALTERMINALINC	10602994	101729GA	10	B2	15.2
11/1/2007	584430	126-COLONIALTERMINALINC	10602995	101729GA	3	B2	15.79
11/1/2007	584433	126-COLONIALTERMINALINC	10602996	101729GA	1	B2	14.61
11/1/2007	584438	126-COLONIALTERMINALINC	10602997	101729GA	25	B2	15.99
11/1/2007	584445	126-COLONIALTERMINALINC	10602998	101729GA	4	B2	15.96
11/1/2007	584459	126-COLONIALTERMINALINC	10602999	101729GA	10	B2	15.58
11/1/2007	584463	126-COLONIALTERMINALINC	10603000	101729GA	C22	B2	16.53
11/1/2007	584466	126-COLONIALTERMINALINC	10603001	101729GA	JW1	B2	15.07
11/1/2007	584473	126-COLONIALTERMINALINC	10603002	101729GA	C23	B2	16.11
11/1/2007	584475	126-COLONIALTERMINALINC	10603003	101729GA	3	B2	16.79
11/1/2007	584476	126-COLONIALTERMINALINC	10603004	101729GA	25	B2	16.63
11/1/2007	584480	126-COLONIALTERMINALINC	10603005	101729GA	1	B2	16.36
11/1/2007	584485	126-COLONIALTERMINALINC	10603006	101729GA	4	B2	16.08
11/1/2007	584502	126-COLONIALTERMINALINC	10603007	101729GA	C22	B2	16.52
11/1/2007	584508	126-COLONIALTERMINALINC	10603008	101729GA	C23	B2	16.09
11/1/2007	584512	126-COLONIALTERMINALINC	10603009	101729GA	25	B2	16.97

Table 4-2
Waste Transportation and Disposal Log
Colonial Terminals
Savannah, GA
HSI Site 10098

Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
11/2/2007	584595	126-COLONIALTERMINALINC	10603010	101729GA	19	B4	16.51
11/2/2007	584597	126-COLONIALTERMINALINC	10603011	101729GA	C22	B4	16.69
11/2/2007	584596	126-COLONIALTERMINALINC	10603012	101729GA	C23	B4	17.92
11/2/2007	584598	126-COLONIALTERMINALINC	10603013	101729GA	26	B4	16.64
11/2/2007	584605	126-COLONIALTERMINALINC	10603014	101729GA	27	B4	17.95
11/2/2007	584621	126-COLONIALTERMINALINC	10603015	101729GA	19	B4	16.29
11/2/2007	584631	126-COLONIALTERMINALINC	10603016	101729GA	C22	B4	17.89
11/2/2007	584632	126-COLONIALTERMINALINC	10603017	101729GA	26	B4	17.65
11/2/2007	584641	126-COLONIALTERMINALINC	10603018	101729GA	C23	B4	17.21
11/2/2007	584639	126-COLONIALTERMINALINC	10603019	101729GA	27	B4	17.02
11/2/2007	584650	126-COLONIALTERMINALINC	10603020	101729GA	19	B4	18.14
11/2/2007	584651	126-COLONIALTERMINALINC	10603021	101729GA	26	B4	17.51
11/2/2007	584657	126-COLONIALTERMINALINC	10603022	101729GA	C22	B4	18.06
11/2/2007	584667	126-COLONIALTERMINALINC	10603023	101729GA	C23	B4	18.71
11/2/2007	584695	126-COLONIALTERMINALINC	10603024	101729GA	27	B4	16.73
11/2/2007	584701	126-COLONIALTERMINALINC	10603025	101729GA	C23	B4	15.61
11/2/2007	584702	126-COLONIALTERMINALINC	10603026	101729GA	C22	B4	14.81
11/5/2007	584831	126-COLONIALTERMINALINC	10603027	101729GA	C27	B3	13.78
11/5/2007	584838	126-COLONIALTERMINALINC	10603028	101729GA	C19	B3	13.25
11/5/2007	584845	126-COLONIALTERMINALINC	10603029	101729GA	C23	B3	14.46
11/5/2007	584847	126-COLONIALTERMINALINC	10603030	101729GA	C26	B3	13.73
11/5/2007	584866	126-COLONIALTERMINALINC	10603031	101729GA	C27	B3	17.82
11/5/2007	584867	126-COLONIALTERMINALINC	10603032	101729GA	C19	B3	15.07
11/5/2007	584872	126-COLONIALTERMINALINC	10603033	101729GA	C23	B3	13.89
11/2/2007	584663	126-COLONIALTERMINALINC	10603034	101729GA	27	B4	16.97
11/5/2007	584916	126-COLONIALTERMINALINC	10603035	101729GA	C23	B3	17.23
11/5/2007	585025	126-COLONIALTERMINALINC	10603036	101729GA	C19	B3	16.17
11/5/2007	585024	126-COLONIALTERMINALINC	10603037	101729GA	C20	B3	16
11/5/2007	585030	126-COLONIALTERMINALINC	10603038	101729GA	C27	B3	13.57
11/6/2007	585057	126-COLONIALTERMINALINC	10603039	101729GA	C23	B3	16.71
11/6/2007	585066	126-COLONIALTERMINALINC	10603040	101729GA	C19	B3	14.85
11/6/2007	585072	126-COLONIALTERMINALINC	10603041	101729GA	C27	B3	17.22
11/6/2007	585092	126-COLONIALTERMINALINC	10603042	101729GA	C23	B3	18.35
11/6/2007	585093	126-COLONIALTERMINALINC	10603043	101729GA	C19	B3	14.52
11/6/2007	585099	126-COLONIALTERMINALINC	10603044	101729GA	C27	B3	16.38
11/6/2007	585121	126-COLONIALTERMINALINC	10603045	101729GA	C23	B3	15.9
11/6/2007	585122	126-COLONIALTERMINALINC	10603046	101729GA	C19	B3	15.74
11/6/2007	585131	126-COLONIALTERMINALINC	10603047	101729GA	C27	B3	14.51
11/6/2007	585162	126-COLONIALTERMINALINC	10603048	101729GA	C23	B3	14.81
11/6/2007	585159	126-COLONIALTERMINALINC	10603049	101729GA	C19	B3	15.27
11/6/2007	585176	126-COLONIALTERMINALINC	10603050	101729GA	C27	B3	16.23
11/6/2007	585199	126-COLONIALTERMINALINC	10603051	101729GA	C23	B3	18.13
11/8/2007	585459	126-COLONIALTERMINALINC	10603052	101729GA	TD004	D1	18.28
11/8/2007	585460	126-COLONIALTERMINALINC	10603053	101729GA	TD010	D1	17.91
11/8/2007	585455	126-COLONIALTERMINALINC	10603054	101729GA	TD003	D1	19.87
11/8/2007	585457	126-COLONIALTERMINALINC	10603055	101729GA	C25	D1	20.02
11/8/2007	585467	126-COLONIALTERMINALINC	10603056	101729GA	C28	D1	16.79
11/8/2007	585465	126-COLONIALTERMINALINC	10603057	101729GA	C22	D1	19.43
11/8/2007	585470	126-COLONIALTERMINALINC	10603058	101729GA	TD002	D1	24.04
11/8/2007	585471	126-COLONIALTERMINALINC	10603059	101729GA	TD008	D1	16.78
11/8/2007	585473	126-COLONIALTERMINALINC	10603060	101729GA	C27	D1	18.19
11/8/2007	585472	126-COLONIALTERMINALINC	10603061	101729GA	C19	D1	20.01
11/8/2007	585477	126-COLONIALTERMINALINC	10603062	101729GA	C20	D1	16.18
11/8/2007	585488	126-COLONIALTERMINALINC	10603063	101729GA	C23	D1	20.33
11/8/2007	585480	126-COLONIALTERMINALINC	10603064	101729GA	C26	D1	16.42
11/8/2007	585497	126-COLONIALTERMINALINC	10603065	101729GA	TD003	D1	19.66
11/8/2007	585500	126-COLONIALTERMINALINC	10603066	101729GA	TD010	D1	18.79
11/8/2007	585502	126-COLONIALTERMINALINC	10603067	101729GA	TD004	D1	16.73

Table 4-2
Waste Transportation and Disposal Log
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Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
11/8/2007	585507	126-COLONIALTERMINALINC	10603068	101729GA	C25	D1	20.54
11/8/2007	585506	126-COLONIALTERMINALINC	10603069	101729GA	C28	D1	21.47
11/8/2007	585508	126-COLONIALTERMINALINC	10603070	101729GA	TD008	D1	17.94
11/8/2007	585509	126-COLONIALTERMINALINC	10603071	101729GA	C19	D1	21.1
11/8/2007	585512	126-COLONIALTERMINALINC	10603072	101729GA	TD002	D1	22.55
11/8/2007	585511	126-COLONIALTERMINALINC	10603073	101729GA	C27	D1	20.08
11/8/2007	585513	126-COLONIALTERMINALINC	10603074	101729GA	C22	D1	19.76
11/8/2007	585514	126-COLONIALTERMINALINC	10603075	101729GA	C26	D1	18.59
11/8/2007	585517	126-COLONIALTERMINALINC	10603076	101729GA	C20	D1	21.7
11/8/2007	585529	126-COLONIALTERMINALINC	10603077	101729GA	C23	D1	19.3
11/8/2007	585543	126-COLONIALTERMINALINC	10603078	101729GA	TD003	D1	19.42
11/8/2007	585545	126-COLONIALTERMINALINC	10603079	101729GA	TD010	D1	18.26
11/8/2007	585549	126-COLONIALTERMINALINC	10603080	101729GA	TD004	D1	17.46
11/8/2007	585553	126-COLONIALTERMINALINC	10603081	101729GA	C28	D1	19.83
11/8/2007	585552	126-COLONIALTERMINALINC	10603082	101729GA	TD008	D1	19.67
11/8/2007	585555	126-COLONIALTERMINALINC	10603083	101729GA	C25	D1	19.51
11/8/2007	585557	126-COLONIALTERMINALINC	10603084	101729GA	C27	D1	18.62
11/8/2007	585556	126-COLONIALTERMINALINC	10603085	101729GA	C19	D1	21.07
11/8/2007	585560	126-COLONIALTERMINALINC	10603086	101729GA	TD002	D1	22.05
11/8/2007	585561	126-COLONIALTERMINALINC	10603087	101729GA	C22	D1	18.91
11/8/2007	585562	126-COLONIALTERMINALINC	10603088	101729GA	C26	D1	17.75
11/8/2007	585566	126-COLONIALTERMINALINC	10603089	101729GA	C20	D1	18.41
11/8/2007	585575	126-COLONIALTERMINALINC	10603090	101729GA	C23	D1	19.07
11/8/2007	585579	126-COLONIALTERMINALINC	10603091	101729GA	TD003	D1	21.38
11/8/2007	585595	126-COLONIALTERMINALINC	10603092	101729GA	C19	D1	21.47
11/8/2007	585593	126-COLONIALTERMINALINC	10603094	101729GA	C27	D1	19.31
11/8/2007	585596	126-COLONIALTERMINALINC	10603095	101729GA	C25	D1	19.99
11/8/2007	585599	126-COLONIALTERMINALINC	10603096	101729GA	C22	D1	21.11
11/8/2007	585597	126-COLONIALTERMINALINC	10603097	101729GA	C26	D1	20.25
11/8/2007	585600	126-COLONIALTERMINALINC	10603098	101729GA	C28	D2	16.74
11/8/2007	585607	126-COLONIALTERMINALINC	10603099	101729GA	C20	D2	18.29
11/8/2007	585610	126-COLONIALTERMINALINC	10603100	101729GA	C23	D2	16.52
11/8/2007	585614	126-COLONIALTERMINALINC	10603101	101729GA	TD004	D2	15.1
11/8/2007	585617	126-COLONIALTERMINALINC	10603102	101729GA	TD010	D2	16.28
11/8/2007	585619	126-COLONIALTERMINALINC	10603103	101729GA	TD002	D2	22.45
11/8/2007	585630	126-COLONIALTERMINALINC	10603104	101729GA	TD008	D2	19.62
11/8/2007	585631	126-COLONIALTERMINALINC	10603105	101729GA	TD003	D2	15.89
11/8/2007	585638	126-COLONIALTERMINALINC	10603106	101729GA	C26	D2	17.15
11/8/2007	585648	126-COLONIALTERMINALINC	10603107	101729GA	C20	D2	18.95
11/8/2007	585652	126-COLONIALTERMINALINC	10603108	101729GA	C23	D2	18.1
11/8/2007	585653	126-COLONIALTERMINALINC	10603109	101729GA	TD010	D2	18.76
11/8/2007	585658	126-COLONIALTERMINALINC	10603110	101729GA	TD004	D2	18.52
11/8/2007	585660	126-COLONIALTERMINALINC	10603111	101729GA	TD002	D2	17.97
11/8/2007	585664	126-COLONIALTERMINALINC	10603112	101729GA	TD003	D2	17.97
11/8/2007	585668	126-COLONIALTERMINALINC	10603113	101729GA	TD008	D2	15.14
11/8/2007	585672	126-COLONIALTERMINALINC	10603114	101729GA	C26	F1	16.85
11/8/2007	585679	126-COLONIALTERMINALINC	10603115	101729GA	C20	F1	16.65
11/8/2007	585681	126-COLONIALTERMINALINC	10603116	101729GA	TD010	F1	15.91
11/8/2007	585684	126-COLONIALTERMINALINC	10603117	101729GA	C23	F1	18.12
11/8/2007	585688	126-COLONIALTERMINALINC	10603118	101729GA	TD004	F1	16.88
11/8/2007	585690	126-COLONIALTERMINALINC	10603119	101729GA	TD002	F1	18.8
11/8/2007	585691	126-COLONIALTERMINALINC	10603120	101729GA	TD008	F1	17.75
11/8/2007	585692	126-COLONIALTERMINALINC	10603121	101729GA	TD003	F1	18.57
11/8/2007	000000	126-COLONIALTERMINALINC	10603122	101729GA	C26	F1	20.06
11/9/2007	585713	126-COLONIALTERMINALINC	10603123	101729GA	TD010	G4	19.2
11/9/2007	585718	126-COLONIALTERMINALINC	10603124	101729GA	TD003	G4	19.25
11/9/2007	585719	126-COLONIALTERMINALINC	10603125	101729GA	TD006	G4	19.84
11/9/2007	585723	126-COLONIALTERMINALINC	10603126	101729GA	C25	G4	20.49

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Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
11/9/2007	585726	126-COLONIALTERMINALINC	10603127	101729GA	C20	G4	19.24
11/9/2007	585728	126-COLONIALTERMINALINC	10603128	101729GA	C22	G4	20.28
11/9/2007	585730	126-COLONIALTERMINALINC	10603129	101729GA	C29	G4	21.45
11/9/2007	585731	126-COLONIALTERMINALINC	10603130	101729GA	C21	G4	20.98
11/9/2007	585735	126-COLONIALTERMINALINC	10603131	101729GA	C19	G4	21.59
11/9/2007	585744	126-COLONIALTERMINALINC	10603132	101729GA	TD008	G4	17.76
11/9/2007	585743	126-COLONIALTERMINALINC	10603133	101729GA	TD002	G4	21.24
11/9/2007	585749	126-COLONIALTERMINALINC	10603134	101729GA	C23	G4	17.28
11/9/2007	585748	126-COLONIALTERMINALINC	10603135	101729GA	C27	G4	20.34
11/9/2007	585754	126-COLONIALTERMINALINC	10603136	101729GA	C28	G4	20.78
11/9/2007	585757	126-COLONIALTERMINALINC	10603137	101729GA	C26	G4	20.37
11/9/2007	585764	126-COLONIALTERMINALINC	10603138	101729GA	C22	G4	21.02
11/9/2007	585769	126-COLONIALTERMINALINC	10603139	101729GA	C25	G4	18.1
11/13/2007	586154	126-COLONIALTERMINALINC	10603140	101729GA	C26	B5	20.43
11/13/2007	586156	126-COLONIALTERMINALINC	10603141	101729GA	C22	B5	21.55
11/13/2007	586167	126-COLONIALTERMINALINC	10603142	101729GA	TD009	B5	20.53
11/13/2007	586179	126-COLONIALTERMINALINC	10603143	101729GA	TD010	B5	20.68
11/13/2007	586172	126-COLONIALTERMINALINC	10603144	101729GA	TD004	B5	19.75
11/13/2007	586173	126-COLONIALTERMINALINC	10603145	101729GA	TD007	B5	21.38
11/13/2007	586181	126-COLONIALTERMINALINC	10603146	101729GA	C26	B5	20.37
11/13/2007	586185	126-COLONIALTERMINALINC	10603147	101729GA	C22	B5	21.95
11/13/2007	586207	126-COLONIALTERMINALINC	10603148	101729GA	TD009	B5	21.24
11/13/2007	586203	126-COLONIALTERMINALINC	10603149	101729GA	TD004	B5	19.62
11/13/2007	586208	126-COLONIALTERMINALINC	10603150	101729GA	TD007	B5	20.2
11/13/2007	586212	126-COLONIALTERMINALINC	10603151	101729GA	C26	B5	37.97
11/13/2007	586216	126-COLONIALTERMINALINC	10603152	101729GA	TD010	B5	19.79
11/13/2007	586229	126-COLONIALTERMINALINC	10603153	101729GA	C22	B5	23.01
11/13/2007	586240	126-COLONIALTERMINALINC	10603154	101729GA	C26	B5	20.21
11/13/2007	586245	126-COLONIALTERMINALINC	10603155	101729GA	TD009	B5	21.5
11/13/2007	586247	126-COLONIALTERMINALINC	10603156	101729GA	TD007	B5	19.64
11/13/2007	586253	126-COLONIALTERMINALINC	10603157	101729GA	TD004	B5	18.58
11/13/2007	586256	126-COLONIALTERMINALINC	10603158	101729GA	TD010	B5	19.69
11/13/2007	586258	126-COLONIALTERMINALINC	10603159	101729GA	C22	B5	20.21
11/13/2007	586270	126-COLONIALTERMINALINC	10603160	101729GA	C26	B5	19.44
11/13/2007	586278	126-COLONIALTERMINALINC	10603161	101729GA	TD009	G3	18.49
11/13/2007	586282	126-COLONIALTERMINALINC	10603162	101729GA	TD007	G3	16.68
11/13/2007	586286	126-COLONIALTERMINALINC	10603163	101729GA	TD004	G3	16.78
11/13/2007	586287	126-COLONIALTERMINALINC	10603164	101729GA	TD010	G3	16.01
11/13/2007	586292	126-COLONIALTERMINALINC	10603165	101729GA	C22	G3	18.23
11/15/2007	586511	126-COLONIALTERMINALINC	10603166	101729GA	R13	G2	16.75
11/15/2007	586512	126-COLONIALTERMINALINC	10603167	101729GA	R14	G2	19.21
11/15/2007	586510	126-COLONIALTERMINALINC	10603168	101729GA	R11	G2	18.41
11/15/2007	586513	126-COLONIALTERMINALINC	10603169	101729GA	W65	G2	20.04
11/15/2007	586514	126-COLONIALTERMINALINC	10603170	101729GA	R12	G2	19.24
11/15/2007	586544	126-COLONIALTERMINALINC	10603171	101729GA	R11	G2	18.36
11/15/2007	586546	126-COLONIALTERMINALINC	10603172	101729GA	R13	G2	18.42
11/15/2007	586547	126-COLONIALTERMINALINC	10603173	101729GA	R14	G2	19.5
11/15/2007	586552	126-COLONIALTERMINALINC	10603174	101729GA	W65	G2	19.87
11/15/2007	586553	126-COLONIALTERMINALINC	10603175	101729GA	R12	G2	18.41
11/15/2007	586570	126-COLONIALTERMINALINC	10603176	101729GA	R11	G1	18.28
11/15/2007	586577	126-COLONIALTERMINALINC	10603177	101729GA	R13	G1	17.85
11/15/2007	586582	126-COLONIALTERMINALINC	10603178	101729GA	R14	G1	18.72
11/15/2007	586594	126-COLONIALTERMINALINC	10603179	101729GA	W65	G1	21.88
11/15/2007	586593	126-COLONIALTERMINALINC	10603180	101729GA	R11	G1	20.22
11/15/2007	586605	126-COLONIALTERMINALINC	10603181	101729GA	R13	G1	18.15
11/15/2007	586607	126-COLONIALTERMINALINC	10603182	101729GA	R14	G1	19.75
11/15/2007	586621	126-COLONIALTERMINALINC	10603183	101729GA	R12	G1	19.55
11/15/2007	586630	126-COLONIALTERMINALINC	10603184	101729GA	W65	G1	20.04

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Waste Transportation and Disposal Log
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Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
11/15/2007	586637	126-COLONIALTERMINALINC	10603185	101729GA	R13	G1	19.73
11/15/2007	586638	126-COLONIALTERMINALINC	10603186	101729GA	R14	G1	18.6
11/15/2007	586650	126-COLONIALTERMINALINC	10603187	101729GA	R11	G1	20.18
11/15/2007	586658	126-COLONIALTERMINALINC	10603188	101729GA	W65	G1	21.66
11/15/2007	586662	126-COLONIALTERMINALINC	10603189	101729GA	R13	G1	20.1
11/15/2007	586665	126-COLONIALTERMINALINC	10603190	101729GA	R14	G1	19.25
11/16/2007	586684	126-COLONIALTERMINALINC	10603191	101729GA	R11	G1	18.69
11/16/2007	586685	126-COLONIALTERMINALINC	10603192	101729GA	SL04	G1	18.65
11/16/2007	586686	126-COLONIALTERMINALINC	10603193	101729GA	SF03	G1	19.67
11/16/2007	586687	126-COLONIALTERMINALINC	10603194	101729GA	LC02	G1	19.67
11/16/2007	586692	126-COLONIALTERMINALINC	10603195	101729GA	R14	G1	19.46
11/16/2007	586699	126-COLONIALTERMINALINC	10603196	101729GA	DM01	G1	17.25
11/16/2007	586700	126-COLONIALTERMINALINC	10603197	101729GA	DM02	G1	20.87
11/16/2007	586698	126-COLONIALTERMINALINC	10603198	101729GA	R13	G1	20.96
11/19/2007	586959	126-COLONIALTERMINALINC	10603199	101729GA	R11	I1	15.72
11/19/2007	586963	126-COLONIALTERMINALINC	10603200	101729GA	R14	I1	15.81
11/19/2007	586971	126-COLONIALTERMINALINC	10603201	101729GA	DM03	I1	16.66
11/19/2007	586970	126-COLONIALTERMINALINC	10603202	101729GA	DM04	I1	16.51
11/19/2007	586980	126-COLONIALTERMINALINC	10603203	101729GA		506 I1	16.82
11/19/2007	586983	126-COLONIALTERMINALINC	10603204	101729GA	DM01	I1	12.83
11/19/2007	586979	126-COLONIALTERMINALINC	10603205	101729GA	R13	I1	16.34
11/19/2007	586982	126-COLONIALTERMINALINC	10603206	101729GA	R12	I1	16.42
11/19/2007	586985	126-COLONIALTERMINALINC	10603207	101729GA	R06	I1	17.23
11/19/2007	586993	126-COLONIALTERMINALINC	10603208	101729GA	R11	I1	17.53
11/19/2007	587022	126-COLONIALTERMINALINC	10603209	101729GA	SF01	I1	15.93
11/19/2007	587011	126-COLONIALTERMINALINC	10603210	101729GA	LC02	I1	14.69
11/19/2007	587023	126-COLONIALTERMINALINC	10603211	101729GA	B1	I1	17.03
11/19/2007	587025	126-COLONIALTERMINALINC	10603212	101729GA	LC01	I1	16.03
11/19/2007	587021	126-COLONIALTERMINALINC	10603213	101729GA	M01	I1	16.99
11/19/2007	587029	126-COLONIALTERMINALINC	10603214	101729GA	M5	I1	18.12
11/19/2007	587010	126-COLONIALTERMINALINC	10603215	101729GA	R14	I1	15.29
11/19/2007	587028	126-COLONIALTERMINALINC	10603216	101729GA	DM03	I1	15.89
11/19/2007	587017	126-COLONIALTERMINALINC	10603217	101729GA	DM04	I1	17.32
11/19/2007	587039	126-COLONIALTERMINALINC	10603218	101729GA	R06	I1	19.32
11/19/2007	587034	126-COLONIALTERMINALINC	10603219	101729GA	R13	I1	15.53
11/19/2007	587037	126-COLONIALTERMINALINC	10603220	101729GA		506 I1	19.36
11/19/2007	587041	126-COLONIALTERMINALINC	10603221	101729GA	DM01	I1	13.49
11/19/2007	587040	126-COLONIALTERMINALINC	10603222	101729GA	R11	I1	16.56
11/19/2007	587069	126-COLONIALTERMINALINC	10603223	101729GA	R14	I1	17.68
11/19/2007	587071	126-COLONIALTERMINALINC	10603224	101729GA	LC02	I1	17.56
11/19/2007	587074	126-COLONIALTERMINALINC	10603225	101729GA	DM04	I1	18.56
11/19/2007	587088	126-COLONIALTERMINALINC	10603226	101729GA	DM03	I1	18.36
11/19/2007	587080	126-COLONIALTERMINALINC	10603227	101729GA	LC01	I1	17.06
11/19/2007	587081	126-COLONIALTERMINALINC	10603228	101729GA	B1	I1	17.12
11/19/2007	587087	126-COLONIALTERMINALINC	10603229	101729GA	M01	I1	16.68
11/19/2007	587085	126-COLONIALTERMINALINC	10603230	101729GA	SF01	I1	15.28
11/19/2007	587089	126-COLONIALTERMINALINC	10603231	101729GA	R13	I1	15.58
11/19/2007	587094	126-COLONIALTERMINALINC	10603232	101729GA		506 I1	16.45
11/19/2007	587097	126-COLONIALTERMINALINC	10603233	101729GA	M5	I1	15.84
11/19/2007	587100	126-COLONIALTERMINALINC	10603234	101729GA	DM01	I1	12.06
11/19/2007	587101	126-COLONIALTERMINALINC	10603235	101729GA	R06	I1	17.15
11/19/2007	587107	126-COLONIALTERMINALINC	10603236	101729GA	R14	I1	16.53
11/19/2007	587115	126-COLONIALTERMINALINC	10603237	101729GA	LC02	I1	17.8
11/19/2007	587123	126-COLONIALTERMINALINC	10603238	101729GA	B1	I1	20.1
11/19/2007	587122	126-COLONIALTERMINALINC	10603239	101729GA	LC01	I1	17.15
11/19/2007	587126	126-COLONIALTERMINALINC	10603240	101729GA	SF01	I1	18.43
11/19/2007	587133	126-COLONIALTERMINALINC	10603241	101729GA	M01	I1	17.87
11/19/2007	587135	126-COLONIALTERMINALINC	10603242	101729GA	R13	I1	17.43

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Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
11/19/2007	587144	126-COLONIALTERMINALINC	10603244	101729GA	DM01	I1	16.72
11/19/2007	587141	126-COLONIALTERMINALINC	10563243	101729GA	506	I1	18.04
11/19/2007	587150	126-COLONIALTERMINALINC	10603245	101729GA	M5	I1	18.52
11/19/2007	587156	126-COLONIALTERMINALINC	10603246	101729GA	R14	E	19.13
11/19/2007	587157	126-COLONIALTERMINALINC	10603247	101729GA	LC02	E	20.28
11/19/2007	587159	126-COLONIALTERMINALINC	10603248	101729GA	LC01	E	15.43
11/19/2007	587167	126-COLONIALTERMINALINC	10603249	101729GA	B1	E	20.85
11/19/2007	587169	126-COLONIALTERMINALINC	10603250	101729GA	LC01	E	18.09
11/19/2007	587173	126-COLONIALTERMINALINC	10603251	101729GA	M01	E	19.43
11/19/2007	587175	126-COLONIALTERMINALINC	10603252	101729GA	R13	E	20.27
11/19/2007	587178	126-COLONIALTERMINALINC	10603254	101729GA	506	I2	19.18
11/19/2007	587183	126-COLONIALTERMINALINC	10603255	101729GA	DM01	I2	16.41
11/20/2007	587227	126-COLONIALTERMINALINC	10603256	101729GA	M01	I2	20.34
11/20/2007	587224	126-COLONIALTERMINALINC	10603257	101729GA	B1	I2	18.68
11/20/2007	587236	126-COLONIALTERMINALINC	10603258	101729GA	506	I2	21.12
11/20/2007	587231	126-COLONIALTERMINALINC	10603259	101729GA	R11	I2	18.09
11/20/2007	587233	126-COLONIALTERMINALINC	10603260	101729GA	R14	I2	17.87
11/20/2007	587238	126-COLONIALTERMINALINC	10603261	101729GA	M5	I2	19.97
11/20/2007	587243	126-COLONIALTERMINALINC	10603262	101729GA	R13	I2	19.04
11/20/2007	587269	126-COLONIALTERMINALINC	10603263	101729GA	LC01	I2	17.44
11/20/2007	587267	126-COLONIALTERMINALINC	10603264	101729GA	R06	I2	19.7
11/20/2007	587268	126-COLONIALTERMINALINC	10603265	101729GA	R11	I2	19.18
11/20/2007	587271	126-COLONIALTERMINALINC	10603266	101729GA	B1	I2	19.74
11/20/2007	587273	126-COLONIALTERMINALINC	10603267	101729GA	506	I2	21.09
11/20/2007	587276	126-COLONIALTERMINALINC	10603268	101729GA	R14	I2	19.66
11/20/2007	587281	126-COLONIALTERMINALINC	10603269	101729GA	M5	I2	20.05
11/20/2007	587280	126-COLONIALTERMINALINC	10603270	101729GA	R13	I2	19.04
11/20/2007	587294	126-COLONIALTERMINALINC	10603271	101729GA	333	I2	18.27
11/20/2007	587299	126-COLONIALTERMINALINC	10603272	101729GA	R11	I2	17.4
11/20/2007	587303	126-COLONIALTERMINALINC	10603273	101729GA	R06	I2	20.96
11/20/2007	587309	126-COLONIALTERMINALINC	10603274	101729GA	M01	I2	18.33
11/20/2007	587314	126-COLONIALTERMINALINC	10603275	101729GA	B1	I2	21.9
11/20/2007	587318	126-COLONIALTERMINALINC	10603276	101729GA	506	I2	20.41
11/20/2007	587316	126-COLONIALTERMINALINC	10603277	101729GA	R14	I2	19.38
11/20/2007	587319	126-COLONIALTERMINALINC	10603278	101729GA	R13	I2	20.25
11/20/2007	587322	126-COLONIALTERMINALINC	10603279	101729GA	M5	I2	21.65
11/20/2007	587331	126-COLONIALTERMINALINC	10603280	101729GA	R11	I2	20.09
11/20/2007	587352	126-COLONIALTERMINALINC	10603281	101729GA	333	I2	18.9
11/20/2007	587346	126-COLONIALTERMINALINC	10603282	101729GA	LC01	I2	19.65
11/20/2007	587345	126-COLONIALTERMINALINC	10603283	101729GA	R06	I2	20.71
11/20/2007	587350	126-COLONIALTERMINALINC	10603284	101729GA	B1	I2	20.69
11/20/2007	587349	126-COLONIALTERMINALINC	10603285	101729GA	R14	I2	20.17
11/20/2007	587353	126-COLONIALTERMINALINC	10603286	101729GA	506	I2	22.35
11/20/2007	587354	126-COLONIALTERMINALINC	10603287	101729GA	R13	I2	20.22
11/20/2007	587356	126-COLONIALTERMINALINC	10603288	101729GA	M5	I2	20.82
11/20/2007	587365	126-COLONIALTERMINALINC	10603289	101729GA	R11	I2	18.09
11/20/2007	587383	126-COLONIALTERMINALINC	10603290	101729GA	R14	I2	17.84
11/20/2007	587387	126-COLONIALTERMINALINC	10603291	101729GA	M01	I2	19.13
11/20/2007	587390	126-COLONIALTERMINALINC	10603292	101729GA	B1	I2	20.17
11/20/2007	587393	126-COLONIALTERMINALINC	10603293	101729GA	R13	I2	18.46
11/20/2007	587401	126-COLONIALTERMINALINC	10603294	101729GA	333	I2	16.43
11/20/2007	587400	126-COLONIALTERMINALINC	10603295	101729GA	506	I2	17.55
11/20/2007	587402	126-COLONIALTERMINALINC	10603296	101729GA	R11	I2	16.32
11/20/2007	587404	126-COLONIALTERMINALINC	10603297	101729GA	M5	I2	18.42
11/20/2007	587420	126-COLONIALTERMINALINC	10603298	101729GA	R14	I2	19.25
11/20/2007	587423	126-COLONIALTERMINALINC	10603299	101729GA	R06	I2	18.78
11/20/2007	587429	126-COLONIALTERMINALINC	10603300	101729GA	R13	I2	18.04
11/20/2007	587428	126-COLONIALTERMINALINC	10603301	101729GA	B1	I2	20.83

Table 4-2
Waste Transportation and Disposal Log
Colonial Terminals
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Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
11/20/2007	587439	126-COLONIALTERMINALINC	10603302	101729GA	R11	I2	18.00
11/20/2007	587444	126-COLONIALTERMINALINC	10603303	101729GA	506	I2	20.73
11/21/2007	587466	126-COLONIALTERMINALINC	10603304	101729GA	506	I2	20.04
11/21/2007	587472	126-COLONIALTERMINALINC	10603305	101729GA	M01	I2	18.11
11/21/2007	587474	126-COLONIALTERMINALINC	10603306	101729GA	333	I2	18.16
11/21/2007	587476	126-COLONIALTERMINALINC	10603307	101729GA	LC02	I2	19.67
11/21/2007	587477	126-COLONIALTERMINALINC	10603308	101729GA	LC03	I2	20.03
11/21/2007	587469	126-COLONIALTERMINALINC	10603309	101729GA	LC02	I2	18.32
11/21/2007	587478	126-COLONIALTERMINALINC	10603310	101729GA	287	I2	20.59
11/21/2007	587482	126-COLONIALTERMINALINC	10603311	101729GA	SF03	I2	19.13
11/21/2007	587481	126-COLONIALTERMINALINC	10603312	101729GA	SL04	I2	18.31
11/21/2007	587484	126-COLONIALTERMINALINC	10603313	101729GA	R12	I2	17.54
11/21/2007	587486	126-COLONIALTERMINALINC	10603314	101729GA	SF01	I2	17.79
11/21/2007	587490	126-COLONIALTERMINALINC	10603315	101729GA	LC01	I2	17.15
11/21/2007	587497	126-COLONIALTERMINALINC	10603316	101729GA	DM04	I2	18.53
11/21/2007	587493	126-COLONIALTERMINALINC	10603317	101729GA	R13	I2	17.26
11/21/2007	587494	126-COLONIALTERMINALINC	10603318	101729GA	R14	I2	17.42
11/21/2007	587501	126-COLONIALTERMINALINC	10603319	101729GA	B1	I2	18.52
11/21/2007	587500	126-COLONIALTERMINALINC	10603320	101729GA	R11	I2	18.48
11/21/2007	587508	126-COLONIALTERMINALINC	10603321	101729GA	M5	I2	20.25
11/21/2007	587509	126-COLONIALTERMINALINC	10603322	101729GA	DM03	I2	16.33
11/21/2007	587513	126-COLONIALTERMINALINC	10603323	101729GA	DM01	I2	10.58
11/21/2007	587511	126-COLONIALTERMINALINC	10603324	101729GA	R06	I2	17.74
11/21/2007	587514	126-COLONIALTERMINALINC	10603325	101729GA	506	I2	16.93
11/21/2007	587523	126-COLONIALTERMINALINC	10603326	101729GA	SL02	I2	18.58
11/21/2007	587529	126-COLONIALTERMINALINC	10603327	101729GA	M01	I2	16.43
11/21/2007	587535	126-COLONIALTERMINALINC	10603328	101729GA	287	I2	21.49
11/21/2007	587536	126-COLONIALTERMINALINC	10603329	101729GA	R12	I2	17.79
11/21/2007	587532	126-COLONIALTERMINALINC	10603330	101729GA	333	I2	13.94
11/21/2007	587539	126-COLONIALTERMINALINC	10603331	101729GA	SF03	I2	18.27
11/21/2007	587531	126-COLONIALTERMINALINC	10603332	101729GA	LC02	I2	18.64
11/21/2007	587540	126-COLONIALTERMINALINC	10603333	101729GA	SF01	I2	17.5
11/21/2007	587534	126-COLONIALTERMINALINC	10603334	101729GA	LC03	I2	17.72
11/21/2007	587554	126-COLONIALTERMINALINC	10603335	101729GA	DM04	I2	16.51
11/21/2007	587551	126-COLONIALTERMINALINC	10603336	101729GA	R11	I2	16.23
11/21/2007	587557	126-COLONIALTERMINALINC	10603337	101729GA	B1	I2	18.92
11/21/2007	587541	126-COLONIALTERMINALINC	10603338	101729GA	R13	I2	16.66
11/21/2007	587548	126-COLONIALTERMINALINC	10603339	101729GA	R14	I2	15.47
11/21/2007	587560	126-COLONIALTERMINALINC	10603340	101729GA	DM03	I2	15.4
11/21/2007	587563	126-COLONIALTERMINALINC	10603341	101729GA	M5	I2	18.32
11/21/2007	587565	126-COLONIALTERMINALINC	10603342	101729GA	LC01	I2	15.82
11/21/2007	587571	126-COLONIALTERMINALINC	10603343	101729GA	R06	I2	15.27
11/21/2007	587568	126-COLONIALTERMINALINC	10603344	101729GA	506	I2	16.51
11/21/2007	587579	126-COLONIALTERMINALINC	10603345	101729GA	DM01	I2	13.56
11/21/2007	587576	126-COLONIALTERMINALINC	10603346	101729GA	M01	I2	12.29
11/21/2007	587580	126-COLONIALTERMINALINC	10603347	101729GA	SL02	I2	13.48
11/21/2007	587585	126-COLONIALTERMINALINC	10603348	101729GA	LC02	I2	8.91
11/21/2007	587589	126-COLONIALTERMINALINC	10603349	101729GA	R12	I2	11.48
11/21/2007	587591	126-COLONIALTERMINALINC	10603350	101729GA	LC03	I2	12.89
11/21/2007	587594	126-COLONIALTERMINALINC	10603351	101729GA	333	I2	10.95
11/21/2007	587595	126-COLONIALTERMINALINC	10603352	101729GA	287	I2	14.5
11/21/2007	587601	126-COLONIALTERMINALINC	10603353	101729GA	SF01	I2	14.35
11/21/2007	587603	126-COLONIALTERMINALINC	10603354	101729GA	SF03	I2	10.58
11/21/2007	587609	126-COLONIALTERMINALINC	10603355	101729GA	R13	I2	11.81
11/21/2007	587614	126-COLONIALTERMINALINC	10603356	101729GA	R14	B7	16.84
11/21/2007	587617	126-COLONIALTERMINALINC	10603357	101729GA	R11	B7	17.35
11/21/2007	587620	126-COLONIALTERMINALINC	10603358	101729GA	DM04	B7	17.77
11/21/2007	587616	126-COLONIALTERMINALINC	10603359	101729GA	LC01	B7	9.58

Table 4-2
Waste Transportation and Disposal Log
Colonial Terminals
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Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
11/21/2007	587628	126-COLONIALTERMINALINC	10603360	101729GA	B1	B7	15.8
11/21/2007	587629	126-COLONIALTERMINALINC	10603361	101729GA	DM03	B7	15.14
11/21/2007	587631	126-COLONIALTERMINALINC	10603362	101729GA	R06	B7	18.52
11/21/2007	587682	126-COLONIALTERMINALINC	10603363	101729GA	M5	B7	9.3
11/26/2007	587954	126-COLONIALTERMINALINC	10603364	101729GA	LC03	B7	21.47
11/26/2007	587956	126-COLONIALTERMINALINC	10603365	101729GA	LC02	B7	20.12
11/26/2007	587963	126-COLONIALTERMINALINC	10603366	101729GA	LC01	B7	18.76
11/26/2007	587965	126-COLONIALTERMINALINC	10603367	101729GA	506	B7	21.03
11/26/2007	587971	126-COLONIALTERMINALINC	10603368	101729GA	B1	B7	19.6
11/26/2007	587977	126-COLONIALTERMINALINC	10603369	101729GA	M5	B7	19.65
11/26/2007	587979	126-COLONIALTERMINALINC	10603370	101729GA	SL04	B7	20.02
11/26/2007	587983	126-COLONIALTERMINALINC	10603371	101729GA	SF03	C	19.71
11/26/2007	587982	126-COLONIALTERMINALINC	10603372	101729GA	R12	C	18.26
11/26/2007	587989	126-COLONIALTERMINALINC	10603373	101729GA	R14	C	19.19
11/26/2007	587990	126-COLONIALTERMINALINC	10603374	101729GA	SL02	C	18.67
11/26/2007	587994	126-COLONIALTERMINALINC	10603375	101729GA	287	C	21.77
11/26/2007	587995	126-COLONIALTERMINALINC	10603376	101729GA	R11	C	17.29
11/26/2007	588000	126-COLONIALTERMINALINC	10603377	101729GA	SF01	C	19.13
11/26/2007	588009	126-COLONIALTERMINALINC	10603378	101729GA	DM03	C	19.51
11/26/2007	588010	126-COLONIALTERMINALINC	10603379	101729GA	DM04	C	20.63
11/26/2007	588014	126-COLONIALTERMINALINC	10603380	101729GA	DM01	G5	17.23
11/26/2007	588016	126-COLONIALTERMINALINC	10603381	101729GA	R06	G5	21.26
11/26/2007	588023	126-COLONIALTERMINALINC	10603382	101729GA	LC06	G5	18.78
11/26/2007	588026	126-COLONIALTERMINALINC	10603383	101729GA	333	G5	19.28
11/26/2007	588028	126-COLONIALTERMINALINC	10603384	101729GA	233	G5	15.92
11/26/2007	588030	126-COLONIALTERMINALINC	10603385	101729GA	LC03	G5	19.77
11/26/2007	588079	126-COLONIALTERMINALINC	10603386	101729GA	LC01	G5	17.22
11/26/2007	588032	126-COLONIALTERMINALINC	10603387	101729GA	LC02	G5	20.15
11/26/2007	588042	126-COLONIALTERMINALINC	10603388	101729GA	M01	G5	16.58
11/26/2007	588043	126-COLONIALTERMINALINC	10603389	101729GA	B1	G5	19.96
11/26/2007	588044	126-COLONIALTERMINALINC	10603390	101729GA	506	G5	20.44
11/26/2007	588046	126-COLONIALTERMINALINC	10603391	101729GA	SL04	G5	20.68
11/26/2007	588050	126-COLONIALTERMINALINC	10603392	101729GA	M5	G5	21.1
11/26/2007	588048	126-COLONIALTERMINALINC	10603393	101729GA	SF03	G5	20.49
11/26/2007	588049	126-COLONIALTERMINALINC	10603394	101729GA	R14	G5	19.39
11/26/2007	588051	126-COLONIALTERMINALINC	10603395	101729GA	R12	G5	19.32
11/26/2007	588053	126-COLONIALTERMINALINC	10603396	101729GA	SL02	G5	21.21
11/26/2007	588057	126-COLONIALTERMINALINC	10603397	101729GA	287	G5	21.53
11/26/2007	588059	126-COLONIALTERMINALINC	10603398	101729GA	SF01	G5	17.99
11/26/2007	588063	126-COLONIALTERMINALINC	10603399	101729GA	DM03	G5	18.42
11/26/2007	588068	126-COLONIALTERMINALINC	10603400	101729GA	DM04	G5	20.3
11/26/2007	588069	126-COLONIALTERMINALINC	10603401	101729GA	DM01	G5	15.34
11/26/2007	588070	126-COLONIALTERMINALINC	10603402	101729GA	LC06	G5	17.28
11/26/2007	588074	126-COLONIALTERMINALINC	10603403	101729GA	LC03	G5	21.73
11/26/2007	588076	126-COLONIALTERMINALINC	10603404	101729GA	LC02	G5	20.15
11/26/2007	588099	126-COLONIALTERMINALINC	10603405	101729GA	333	G5	18.38
11/26/2007	588083	126-COLONIALTERMINALINC	10603406	101729GA	233	G5	18.12
11/26/2007	588088	126-COLONIALTERMINALINC	10603407	101729GA	M01	G5	19.98
11/26/2007	588090	126-COLONIALTERMINALINC	10603408	101729GA	506	G5	19.92
11/26/2007	588091	126-COLONIALTERMINALINC	10603409	101729GA	SL04	G5	19.12
11/26/2007	588098	126-COLONIALTERMINALINC	10603410	101729GA	B1	G5	19.13
11/26/2007	588102	126-COLONIALTERMINALINC	10603411	101729GA	M5	G5	19.39
11/26/2007	588116	126-COLONIALTERMINALINC	10603412	101729GA	SF03	G5	18.88
11/26/2007	588111	126-COLONIALTERMINALINC	10603413	101729GA	287	G5	19.84
11/26/2007	588117	126-COLONIALTERMINALINC	10603415	101729GA	DM04	G5	18.49
11/26/2007	588119	126-COLONIALTERMINALINC	10603414	101729GA	SL02	G5	15.81
11/29/2007	588566	126-COLONIALTERMINALINC	10603416	101729GA	R14	I2	14.48
11/29/2007	588568	126-COLONIALTERMINALINC	10603417	101729GA	R13	I2	14.85

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Waste Transportation and Disposal Log
Colonial Terminals
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Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
11/29/2007	588571	126-COLONIALTERMINALINC	10603418	101729GA	R11	I2	14.25
11/29/2007	588594	126-COLONIALTERMINALINC	10603419	101729GA	R12	I2	14.66
11/29/2007	588595	126-COLONIALTERMINALINC	10603420	101729GA	R06	I2	15.84
11/29/2007	588602	126-COLONIALTERMINALINC	10603421	101729GA	R14	I2	16.88
11/29/2007	588607	126-COLONIALTERMINALINC	10603422	101729GA	R13	I2	15.31
11/29/2007	588555	126-COLONIALTERMINALINC	10603423	101729GA	SF03	A1	20.26
11/29/2007	588557	126-COLONIALTERMINALINC	10603424	101729GA	LC02	A1	17.98
11/29/2007	588560	126-COLONIALTERMINALINC	10603425	101729GA	SL02	A1	15.64
11/29/2007	588562	126-COLONIALTERMINALINC	10603426	101729GA	506	A1	17.83
11/29/2007	588565	126-COLONIALTERMINALINC	10603427	101729GA	M5	A1	18.44
11/29/2007	588564	126-COLONIALTERMINALINC	10603428	101729GA	B1	A1	19.66
11/29/2007	588579	126-COLONIALTERMINALINC	10603429	101729GA	333	A1	13.76
11/29/2007	588584	126-COLONIALTERMINALINC	10603430	101729GA	SF03	A1	16.68
11/29/2007	588586	126-COLONIALTERMINALINC	10603431	101729GA	LC02	A1	18.05
11/29/2007	588593	126-COLONIALTERMINALINC	10603432	101729GA	SL02	A1	18.37
11/29/2007	588596	126-COLONIALTERMINALINC	10603433	101729GA	506	A1	20.32
11/29/2007	588598	126-COLONIALTERMINALINC	10603434	101729GA	B1	A1	19.71
11/29/2007	588601	126-COLONIALTERMINALINC	10603435	101729GA	M5	A1	19.46
11/29/2007	588614	126-COLONIALTERMINALINC	10603436	101729GA	LC02	A1	19.94
11/29/2007	588618	126-COLONIALTERMINALINC	10603437	101729GA	R11	I2	10.68
11/29/2007	588630	126-COLONIALTERMINALINC	10603438	101729GA	SF03	A1	18.52
11/29/2007	588623	126-COLONIALTERMINALINC	10603440	101729GA	333	A1	17.24
11/29/2007	588636	126-COLONIALTERMINALINC	10603441	101729GA	SL02	A1	18.81
11/29/2007	588638	126-COLONIALTERMINALINC	10603442	101729GA	506	A1	20.01
11/29/2007	588639	126-COLONIALTERMINALINC	10603443	101729GA	R12	A1	17.83
11/29/2007	588642	126-COLONIALTERMINALINC	10603444	101729GA	B1	A1	19.7
11/29/2007	588641	126-COLONIALTERMINALINC	10603445	101729GA	M5	A1	19.23
11/29/2007	588647	126-COLONIALTERMINALINC	10603446	101729GA	R06	A1	20.05
11/29/2007	588649	126-COLONIALTERMINALINC	10603447	101729GA	R14	A1	18.55
11/29/2007	588650	126-COLONIALTERMINALINC	10603448	101729GA	LC02	A1	18.94
11/29/2007	588653	126-COLONIALTERMINALINC	10603449	101729GA	R13	A1	17.76
11/29/2007	588658	126-COLONIALTERMINALINC	10603450	101729GA	R11	A1	18.06
11/29/2007	588667	126-COLONIALTERMINALINC	10603451	101729GA	333	A1	16.92
11/29/2007	588664	126-COLONIALTERMINALINC	10603452	101729GA	SF03	A1	18.8
11/29/2007	588673	126-COLONIALTERMINALINC	10603453	101729GA	SL02	A1	18.57
11/29/2007	588676	126-COLONIALTERMINALINC	10603454	101729GA	506	A1	19.92
11/29/2007	588677	126-COLONIALTERMINALINC	10603455	101729GA	R12	A1	17.99
11/29/2007	588680	126-COLONIALTERMINALINC	10603456	101729GA	M5	A1	19.08
11/29/2007	588683	126-COLONIALTERMINALINC	10603457	101729GA	B1	A1	20.07
11/29/2007	588690	126-COLONIALTERMINALINC	10603458	101729GA	R06	A1	20.32
11/29/2007	588685	126-COLONIALTERMINALINC	10603459	101729GA	R14	A1	18.23
11/29/2007	588687	126-COLONIALTERMINALINC	10603460	101729GA	LC02	A1	20.38
11/29/2007	588702	126-COLONIALTERMINALINC	10603461	101729GA	R11	A1	18.59
11/29/2007	588692	126-COLONIALTERMINALINC	10603462	101729GA	R13	A1	18.01
11/29/2007	588703	126-COLONIALTERMINALINC	10603463	101729GA	SF03	A1	19.11
11/29/2007	588722	126-COLONIALTERMINALINC	10603464	101729GA	333	A1	17.72
11/29/2007	588709	126-COLONIALTERMINALINC	10603465	101729GA	R12	A1	18.32
11/29/2007	588712	126-COLONIALTERMINALINC	10603466	101729GA	SL02	A1	19.57
11/29/2007	588713	126-COLONIALTERMINALINC	10603467	101729GA	506	A1	21.11
11/29/2007	588720	126-COLONIALTERMINALINC	10603468	101729GA	B1	A1	22.66
11/29/2007	588724	126-COLONIALTERMINALINC	10603469	101729GA	M5	A1	20.34
11/29/2007	588717	126-COLONIALTERMINALINC	10603470	101729GA	R14	A1	20.7
11/29/2007	588734	126-COLONIALTERMINALINC	10603471	101729GA	LC02	A1	19.99
11/29/2007	588731	126-COLONIALTERMINALINC	10603472	101729GA	R13	A1	17.92
11/29/2007	588739	126-COLONIALTERMINALINC	10603473	101729GA	R11	A1	18.87
11/29/2007	588743	126-COLONIALTERMINALINC	10603474	101729GA	R06	A1	20.38
11/29/2007	588744	126-COLONIALTERMINALINC	10603475	101729GA	SF03	A1	19.63
11/29/2007	588747	126-COLONIALTERMINALINC	10603476	101729GA	R12	A1	19.61

Table 4-2
Waste Transportation and Disposal Log
Colonial Terminals
Savannah, GA
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Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
11/29/2007	588752	126-COLONIALTERMINALINC	10603477	101729GA	506	A1	20.74
11/29/2007	588755	126-COLONIALTERMINALINC	10603478	101729GA	SL02	A1	20.04
11/29/2007	588756	126-COLONIALTERMINALINC	10603479	101729GA	R14	A1	20.35
11/29/2007	588768	126-COLONIALTERMINALINC	10603480	101729GA	333	A1	19.5
11/29/2007	588767	126-COLONIALTERMINALINC	10603481	101729GA	B1	A1	21.99
11/29/2007	588769	126-COLONIALTERMINALINC	10603482	101729GA	M5	A1	20.45
11/29/2007	588770	126-COLONIALTERMINALINC	10603483	101729GA	R13	A1	19.91
11/29/2007	588772	126-COLONIALTERMINALINC	10603484	101729GA	LC02	A1	20.31
11/29/2007	588775	126-COLONIALTERMINALINC	10603485	101729GA	R11	A1	17.53
11/29/2007	588782	126-COLONIALTERMINALINC	10603486	101729GA	R06	A1	21.33
11/29/2007	588780	126-COLONIALTERMINALINC	10603487	101729GA	SF03	A1	20.62
11/29/2007	588781	126-COLONIALTERMINALINC	10603488	101729GA	R12	A1	18.11
11/29/2007	588797	126-COLONIALTERMINALINC	10603489	101729GA	506	A1	22.26
11/29/2007	588787	126-COLONIALTERMINALINC	10603490	101729GA	SL02	A1	20.26
11/29/2007	588792	126-COLONIALTERMINALINC	10603491	101729GA	R14	A1	19.1
11/29/2007	588793	126-COLONIALTERMINALINC	10603492	101729GA	B1	A1	20.97
11/30/2007	588814	126-COLONIALTERMINALINC	10603493	101729GA	LC02	A1	20.53
11/30/2007	588898	126-COLONIALTERMINALINC	10603494	101729GA	SL02	A1	19.21
11/30/2007	588919	126-COLONIALTERMINALINC	10603495	101729GA	R06	A1	22.31
11/30/2007	588921	126-COLONIALTERMINALINC	10603496	101729GA	R14	A1	18.81
11/30/2007	588924	126-COLONIALTERMINALINC	10603497	101729GA	R11	A1	18.04
11/30/2007	588956	126-COLONIALTERMINALINC	10603498	101729GA	5	A1	18.05
11/30/2007	588915	126-COLONIALTERMINALINC	10603499	101729GA	LC02	A1	21.2
11/30/2007	588955	126-COLONIALTERMINALINC	10603500	101729GA	10	A1	15.67
11/30/2007	588910	126-COLONIALTERMINALINC	10603501	101729GA	SF03	A1	20.26
11/30/2007	588892	126-COLONIALTERMINALINC	10603502	101729GA	R14	A1	19.57
11/30/2007	588816	126-COLONIALTERMINALINC	10603503	101729GA	SF03	A1	18.46
11/30/2007	588823	126-COLONIALTERMINALINC	10603504	101729GA	SL02	A1	19.17
11/30/2007	588824	126-COLONIALTERMINALINC	10603505	101729GA	M5	A1	19.29
11/30/2007	588825	126-COLONIALTERMINALINC	10603506	101729GA	R12	A1	19.1
11/30/2007	588831	126-COLONIALTERMINALINC	10603507	101729GA	333	A1	16.79
11/30/2007	588828	126-COLONIALTERMINALINC	10603508	101729GA	LC06	A1	19.3
11/30/2007	588829	126-COLONIALTERMINALINC	10603509	101729GA	R11	A1	19.03
11/30/2007	588830	126-COLONIALTERMINALINC	10603510	101729GA	R14	A1	20.38
11/30/2007	588851	126-COLONIALTERMINALINC	10603511	101729GA	R06	A1	19.85
11/30/2007	588856	126-COLONIALTERMINALINC	10603512	101729GA	SF03	A1	19.91
11/30/2007	588855	126-COLONIALTERMINALINC	10603513	101729GA	LC02	A1	19.54
11/30/2007	588863	126-COLONIALTERMINALINC	10603514	101729GA	M5	A1	20.44
11/30/2007	588860	126-COLONIALTERMINALINC	10603515	101729GA	R12	A1	18.71
11/30/2007	588864	126-COLONIALTERMINALINC	10603516	101729GA	SL02	A1	19.62
11/30/2007	588865	126-COLONIALTERMINALINC	10603517	101729GA	R11	A1	18.65
11/30/2007	588958	126-COLONIALTERMINALINC	10603518	101729GA	20	A1	17.19
11/30/2007	588957	126-COLONIALTERMINALINC	10603519	101729GA	25	A1	12.74
11/30/2007	588875	126-COLONIALTERMINALINC	10603520	101729GA	LC02	A1	20.62
11/30/2007	588876	126-COLONIALTERMINALINC	10603521	101729GA	R06	A1	21.07
11/30/2007	588889	126-COLONIALTERMINALINC	10603522	101729GA	R12	A1	18.69
11/30/2007	588879	126-COLONIALTERMINALINC	10603523	101729GA	SF03	A1	20.35
11/30/2007	588893	126-COLONIALTERMINALINC	10603524	101729GA	506	A1	21.16
11/30/2007	588895	126-COLONIALTERMINALINC	10603525	101729GA	R11	A1	19.16
11/30/2007	588911	126-COLONIALTERMINALINC	10603526	101729GA	B1	A1	18.91
11/30/2007	588903	126-COLONIALTERMINALINC	10603527	101729GA	M5	A1	19.79
11/30/2007	588905	126-COLONIALTERMINALINC	10603528	101729GA	LC06	A1	19.2
11/30/2007	588914	126-COLONIALTERMINALINC	10603529	101729GA	333	A1	16.97
11/30/2007	588960	126-COLONIALTERMINALINC	10603530	101729GA	15	A1	18.08
11/30/2007	588936	126-COLONIALTERMINALINC	10603531	101729GA	R12	A1	19.97
11/30/2007	588871	126-COLONIALTERMINALINC	10603532	101729GA	LC06	A1	19.21
11/30/2007	588867	126-COLONIALTERMINALINC	10603533	101729GA	R14	A1	19.65
11/30/2007	588873	126-COLONIALTERMINALINC	10603534	101729GA	333	A1	17.97

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Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
11/30/2007	588954	126-COLONIALTERMINALINC	10603535	101729GA	506	A1	22.32
11/30/2007	588947	126-COLONIALTERMINALINC	10603536	101729GA	SL02	A1	20.03
11/30/2007	588944	126-COLONIALTERMINALINC	10603537	101729GA	LC06	A1	18.96
11/30/2007	588961	126-COLONIALTERMINALINC	10603538	101729GA	M5	A1	20.11
11/30/2007	588949	126-COLONIALTERMINALINC	10603539	101729GA	SF03	A1	20.8
11/30/2007	588953	126-COLONIALTERMINALINC	10603540	101729GA	B1	A1	22.29
11/30/2007	588951	126-COLONIALTERMINALINC	10603541	101729GA	LC02	A1	20.65
11/30/2007	588979	126-COLONIALTERMINALINC	10603542	101729GA	333	A1	14.58
11/30/2007	588964	126-COLONIALTERMINALINC	10603543	101729GA	R14	A1	19.48
11/30/2007	588966	126-COLONIALTERMINALINC	10603544	101729GA	R06	A1	21.84
11/30/2007	588968	126-COLONIALTERMINALINC	10603545	101729GA	R11	A1	21.2
11/30/2007	588985	126-COLONIALTERMINALINC	10603546	101729GA	R12	A1	19.52
11/30/2007	588990	126-COLONIALTERMINALINC	10603547	101729GA	LC06	A1	20.45
11/30/2007	588993	126-COLONIALTERMINALINC	10603548	101729GA	R13	A1	20.04
11/30/2007	588998	126-COLONIALTERMINALINC	10603549	101729GA	B1	A1	22.76
11/30/2007	588999	126-COLONIALTERMINALINC	10603550	101729GA	SF03	A1	21.53
11/30/2007	589003	126-COLONIALTERMINALINC	10603551	101729GA	SL02	A1	19.5
11/30/2007	589008	126-COLONIALTERMINALINC	10603552	101729GA	506	A1	23.11
11/30/2007	589014	126-COLONIALTERMINALINC	10603553	101729GA	R14	A1	19.12
12/3/2007	589118	126-COLONIALTERMINALINC	10603554	101729GA	LC02	A2	14.95
12/3/2007	589110	126-COLONIALTERMINALINC	10603555	101729GA	R11	B6	16.29
12/3/2007	589119	126-COLONIALTERMINALINC	10603556	101729GA	LC06	B6	14.67
12/3/2007	589120	126-COLONIALTERMINALINC	10603557	101729GA	SF03	B6	15.48
12/3/2007	589121	126-COLONIALTERMINALINC	10603558	101729GA	506	B6	16.76
12/3/2007	589125	126-COLONIALTERMINALINC	10603559	101729GA	LC04	B6	16.66
12/3/2007	589123	126-COLONIALTERMINALINC	10603560	101729GA	R14	A2	14.6
12/3/2007	589126	126-COLONIALTERMINALINC	10603561	101729GA	SF01	B6	16.84
12/3/2007	589127	126-COLONIALTERMINALINC	10603562	101729GA	R13	A2	15.62
12/3/2007	589129	126-COLONIALTERMINALINC	10603563	101729GA	DM03	B6	16.29
12/3/2007	589131	126-COLONIALTERMINALINC	10603564	101729GA	DM04	B6	16.12
12/3/2007	589137	126-COLONIALTERMINALINC	10603565	101729GA	DM01	B6	12.88
12/3/2007	589136	126-COLONIALTERMINALINC	10603566	101729GA	R12	A2	15.62
12/3/2007	589142	126-COLONIALTERMINALINC	10603567	101729GA	M5	B6	15.35
12/3/2007	589143	126-COLONIALTERMINALINC	10603568	101729GA	3	B6	12.32
12/3/2007	589155	126-COLONIALTERMINALINC	10603569	101729GA	R06	A2	18.18
12/3/2007	589147	126-COLONIALTERMINALINC	10603570	101729GA	LC01	B6	16.29
12/3/2007	589157	126-COLONIALTERMINALINC	10603571	101729GA	333	B6	14.13
12/3/2007	589153	126-COLONIALTERMINALINC	10603572	101729GA	B1	B6	17.42
12/3/2007	589156	126-COLONIALTERMINALINC	10603573	101729GA	R11	A2	17.58
12/3/2007	589167	126-COLONIALTERMINALINC	10603574	101729GA	R14	A2	17.2
12/3/2007	589173	126-COLONIALTERMINALINC	10603575	101729GA	LC06	B6	17.64
12/3/2007	589175	126-COLONIALTERMINALINC	10603576	101729GA	SF03	B6	18.87
12/3/2007	589185	126-COLONIALTERMINALINC	10603577	101729GA	506	B6	19.67
12/3/2007	589181	126-COLONIALTERMINALINC	10603578	101729GA	R12	A2	17.98
12/3/2007	589180	126-COLONIALTERMINALINC	10603579	101729GA	LC04	B6	19.95
12/3/2007	589182	126-COLONIALTERMINALINC	10603580	101729GA	SF01	B6	19.53
12/3/2007	589183	126-COLONIALTERMINALINC	10603581	101729GA	R13	A2	16.28
12/3/2007	589187	126-COLONIALTERMINALINC	10603582	101729GA	LC02	B6	20.63
12/3/2007	589193	126-COLONIALTERMINALINC	10603583	101729GA	DM03	B6	18.75
12/3/2007	589199	126-COLONIALTERMINALINC	10603584	101729GA	DM01	B6	16.82
12/3/2007	589200	126-COLONIALTERMINALINC	10603585	101729GA	LC01	B6	19.11
12/3/2007	589201	126-COLONIALTERMINALINC	10603586	101729GA	B1	B6	20.92
12/3/2007	589206	126-COLONIALTERMINALINC	10603587	101729GA	R06	A2	18.8
12/3/2007	589204	126-COLONIALTERMINALINC	10603588	101729GA	R11	A2	17.26
12/3/2007	589211	126-COLONIALTERMINALINC	10603589	101729GA	M5	B6	17.38
12/3/2007	589212	126-COLONIALTERMINALINC	10603590	101729GA	3	B6	14.18
12/3/2007	589210	126-COLONIALTERMINALINC	10603591	101729GA	R14	A2	17.04
12/3/2007	589216	126-COLONIALTERMINALINC	10606592	101729GA	DM04	B6	18.18

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Waste Transportation and Disposal Log
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Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
12/3/2007	589215	126-COLONIALTERMINALINC	10603593	101729GA	R12	A2	16.87
12/3/2007	589218	126-COLONIALTERMINALINC	10603594	101729GA	R13	A2	16.81
12/3/2007	589247	126-COLONIALTERMINALINC	10603595	101729GA	333	B6	15.3
12/3/2007	589222	126-COLONIALTERMINALINC	10603596	101729GA	SF01	B6	19.01
12/3/2007	589225	126-COLONIALTERMINALINC	10603597	101729GA	LC02	B6	19.91
12/3/2007	589232	126-COLONIALTERMINALINC	10603598	101729GA	506	B6	20.39
12/3/2007	589230	126-COLONIALTERMINALINC	10603599	101729GA	SF03	B6	19.79
12/3/2007	589234	126-COLONIALTERMINALINC	10603600	101729GA	LC04	B6	20.68
12/3/2007	589238	126-COLONIALTERMINALINC	10603601	101729GA	DM03	B6	18.94
12/3/2007	589235	126-COLONIALTERMINALINC	10603602	101729GA	LC01	B6	18.54
12/3/2007	589242	126-COLONIALTERMINALINC	10603603	101729GA	B1	B6	20.26
12/3/2007	589239	126-COLONIALTERMINALINC	10603604	101729GA	R11	A2	18.86
12/3/2007	589246	126-COLONIALTERMINALINC	10603605	101729GA	R14	A2	17.42
12/3/2007	589249	126-COLONIALTERMINALINC	10603606	101729GA	DM01	B6	16.07
12/3/2007	589251	126-COLONIALTERMINALINC	10603607	101729GA	R06	A2	18.66
12/3/2007	589255	126-COLONIALTERMINALINC	10603608	101729GA	3	B6	15.28
12/3/2007	589258	126-COLONIALTERMINALINC	10603609	101729GA	M5	B6	18.98
12/3/2007	589259	126-COLONIALTERMINALINC	10603610	101729GA	R12	A2	17.38
12/3/2007	589267	126-COLONIALTERMINALINC	10603611	101729GA	DM04	B6	18.77
12/3/2007	589271	126-COLONIALTERMINALINC	10603612	101729GA	R14	A2	18.4
12/3/2007	589272	126-COLONIALTERMINALINC	10603613	101729GA	LC02	B6	21.15
12/3/2007	589278	126-COLONIALTERMINALINC	10603614	101729GA	SF01	B6	18.82
12/3/2007	589282	126-COLONIALTERMINALINC	10603615	101729GA	SF03	B6	21.08
12/3/2007	589286	126-COLONIALTERMINALINC	10603616	101729GA	506	B6	21.96
12/3/2007	589285	126-COLONIALTERMINALINC	10603617	101729GA	R11	A2	19.1
12/3/2007	589288	126-COLONIALTERMINALINC	10603618	101729GA	DM03	B6	19.69
12/3/2007	589293	126-COLONIALTERMINALINC	10603619	101729GA	B1	B6	20.34
12/3/2007	589294	126-COLONIALTERMINALINC	10603620	101729GA	LC04	B6	19.97
12/3/2007	589295	126-COLONIALTERMINALINC	10603621	101729GA	R14	A2	18.41
12/3/2007	589301	126-COLONIALTERMINALINC	10603622	101729GA	DM01	B6	15.71
12/3/2007	589302	126-COLONIALTERMINALINC	10603623	101729GA	R12	A2	18.14
12/3/2007	589307	126-COLONIALTERMINALINC	10603624	101729GA	M5	B6	19.16
12/3/2007	589308	126-COLONIALTERMINALINC	10603625	101729GA	3	B6	15.85
12/3/2007	589312	126-COLONIALTERMINALINC	10603626	101729GA	DM04	B6	19.39
12/3/2007	589315	126-COLONIALTERMINALINC	10603627	101729GA	R06	A2	20.09
12/3/2007	589321	126-COLONIALTERMINALINC	10603628	101729GA	R13	A2	17.69
12/3/2007	589320	126-COLONIALTERMINALINC	10603629	101729GA	SF01	B6	20.46
12/3/2007	589327	126-COLONIALTERMINALINC	10603630	101729GA	DM03	B6	20.29
12/3/2007	589332	126-COLONIALTERMINALINC	10603631	101729GA	506	B6	21.03
12/3/2007	589334	126-COLONIALTERMINALINC	10603632	101729GA	R14	A2	18.63
12/3/2007	589339	126-COLONIALTERMINALINC	10603633	101729GA	B1	A2	20.93
12/3/2007	589344	126-COLONIALTERMINALINC	10603634	101729GA	DM01	B6	16.52
12/3/2007	589350	126-COLONIALTERMINALINC	10603635	101729GA	M5	B6	19.48
12/3/2007	589343	126-COLONIALTERMINALINC	10603636	101729GA	R12	A2	19.73
12/3/2007	589354	126-COLONIALTERMINALINC	10603637	101729GA	DM04	B6	20
12/3/2007	589353	126-COLONIALTERMINALINC	10603638	101729GA	SF01	B6	19.75
12/4/2007	589370	126-COLONIALTERMINALINC	10603639	101729GA	LC02	B6	19.65
12/4/2007	589371	126-COLONIALTERMINALINC	10603640	101729GA	SF03	B6	18.6
12/4/2007	589375	126-COLONIALTERMINALINC	10625351	101729GA	LC01	B6	19.02
12/4/2007	589380	126-COLONIALTERMINALINC	10625352	101729GA	506	B6	19.89
12/4/2007	589382	126-COLONIALTERMINALINC	10625353	101729GA	M5	B6	19.51
12/4/2007	589384	126-COLONIALTERMINALINC	10625354	101729GA	LC04	B6	20.97
12/4/2007	589388	126-COLONIALTERMINALINC	10625355	101729GA	3	B6	16.22
12/4/2007	589402	126-COLONIALTERMINALINC	10625356	101729GA	LC01	B6	21.67
12/4/2007	589395	126-COLONIALTERMINALINC	10625357	101729GA	R11	A2	18.44
12/4/2007	589396	126-COLONIALTERMINALINC	10625358	101729GA	JB6	A2	20.05
12/4/2007	589398	126-COLONIALTERMINALINC	10625359	101729GA	R14	A2	19.52
12/4/2007	589401	126-COLONIALTERMINALINC	10625360	101729GA	R12	A2	17.72

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Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
12/4/2007	589403	126-COLONIALTERMINALINC	10625361	101729GA	R13	A2	18.83
12/4/2007	589407	126-COLONIALTERMINALINC	10625362	101729GA	DM03	B6	18.06
12/4/2007	589409	126-COLONIALTERMINALINC	10625363	101729GA	DM04	B6	17.93
12/4/2007	589412	126-COLONIALTERMINALINC	10625364	101729GA	DM01	B6	15.57
12/4/2007	589417	126-COLONIALTERMINALINC	10625365	101729GA	SF03	B6	19.33
12/4/2007	589419	126-COLONIALTERMINALINC	10625366	101729GA	LC02	B6	20.81
12/4/2007	589421	126-COLONIALTERMINALINC	10625367	101729GA	LC01	B6	19.73
12/4/2007	589422	126-COLONIALTERMINALINC	10625368	101729GA	R06	A2	19.83
12/4/2007	589425	126-COLONIALTERMINALINC	10625369	101729GA	506	B6	18.41
12/4/2007	589442	126-COLONIALTERMINALINC	10625370	101729GA	LC04	B8	20.09
12/4/2007	589435	126-COLONIALTERMINALINC	10625371	101729GA	R14	A2	18.96
12/4/2007	589438	126-COLONIALTERMINALINC	10625372	101729GA	R11	A2	19.29
12/4/2007	589443	126-COLONIALTERMINALINC	10625373	101729GA	JB6	A2	17.93
12/4/2007	589445	126-COLONIALTERMINALINC	10625374	101729GA	3	B8	16.29
12/4/2007	589447	126-COLONIALTERMINALINC	10625375	101729GA	R12	A2	17.53
12/4/2007	589450	126-COLONIALTERMINALINC	10625376	101729GA	M5	B8	20.42
12/4/2007	589465	126-COLONIALTERMINALINC	10625377	101729GA	B1	B8	19.83
12/4/2007	589464	126-COLONIALTERMINALINC	10625378	101729GA	DM03	B8	19.19
12/4/2007	589456	126-COLONIALTERMINALINC	10625379	101729GA	R13	B8	19.08
12/4/2007	589466	126-COLONIALTERMINALINC	10625380	101729GA	DM04	B8	18.82
12/4/2007	589470	126-COLONIALTERMINALINC	10625381	101729GA	DM01	B8	16.7
12/4/2007	589468	126-COLONIALTERMINALINC	10625382	101729GA	SF03	B8	20.43
12/4/2007	589472	126-COLONIALTERMINALINC	10625383	101729GA	LC01	B8	20.22
12/4/2007	589471	126-COLONIALTERMINALINC	10625384	101729GA	LC02	B8	20.74
12/4/2007	589474	126-COLONIALTERMINALINC	10625385	101729GA	506	B8	20.9
12/4/2007	589488	126-COLONIALTERMINALINC	10625386	101729GA	LC04	B8	19.65
12/4/2007	589496	126-COLONIALTERMINALINC	10625387	101729GA	3	B8	16.67
12/4/2007	589498	126-COLONIALTERMINALINC	10625388	101729GA	M5	B8	19.61
12/4/2007	589505	126-COLONIALTERMINALINC	10625389	101729GA	DM04	B8	20.07
12/4/2007	589508	126-COLONIALTERMINALINC	10625390	101729GA	B1	B8	20.29
12/4/2007	589509	126-COLONIALTERMINALINC	10625391	101729GA	LC02	B8	20.62
12/4/2007	589510	126-COLONIALTERMINALINC	10625392	101729GA	DM03	B8	20.13
12/4/2007	589515	126-COLONIALTERMINALINC	10625393	101729GA	DM01	B8	16.9
12/4/2007	589524	126-COLONIALTERMINALINC	10625394	101729GA	506	B8	21.42
12/4/2007	589518	126-COLONIALTERMINALINC	10625395	101729GA	LC01	B8	19.57
12/4/2007	589526	126-COLONIALTERMINALINC	10625396	101729GA	LC04	B8	21.77
12/4/2007	589536	126-COLONIALTERMINALINC	10625397	101729GA	3	B8	15.39
12/4/2007	589540	126-COLONIALTERMINALINC	10625398	101729GA	M5	B8	20.85
12/4/2007	589539	126-COLONIALTERMINALINC	10625399	101729GA	LC02	B8	19.9
12/4/2007	589543	126-COLONIALTERMINALINC	10625400	101729GA	B1	B8	20.01
12/4/2007	589615	126-COLONIALTERMINALINC	10625401	101729GA	R06	B8	20.92
12/4/2007	589550	126-COLONIALTERMINALINC	10625402	101729GA	R13	B8	19.26
12/4/2007	589549	126-COLONIALTERMINALINC	10625403	101729GA	JB6	B8	20.2
12/4/2007	589552	126-COLONIALTERMINALINC	10625404	101729GA	DM03	B8	18.81
12/4/2007	589554	126-COLONIALTERMINALINC	10625405	101729GA	DM04	B8	19.51
12/4/2007	589557	126-COLONIALTERMINALINC	10625406	101729GA	LC01	B8	19.31
12/4/2007	589558	126-COLONIALTERMINALINC	10625407	101729GA	506	B8	21.57
12/4/2007	589564	126-COLONIALTERMINALINC	10625408	101729GA	LC04	B8	21.36
12/4/2007	589565	126-COLONIALTERMINALINC	10625409	101729GA	R11	B8	18.8
12/4/2007	589577	126-COLONIALTERMINALINC	10625410	101729GA	DM01	B8	16.5
12/4/2007	589570	126-COLONIALTERMINALINC	10625411	101729GA	R14	B8	19.96
12/4/2007	589573	126-COLONIALTERMINALINC	10625412	101729GA	3	B8	15.76
12/4/2007	589579	126-COLONIALTERMINALINC	10625413	101729GA	LC02	B8	21.21
12/4/2007	589584	126-COLONIALTERMINALINC	10625414	101729GA	B1	B8	21.04
12/4/2007	589586	126-COLONIALTERMINALINC	10625415	101729GA	M5	B8	20.41
12/4/2007	589591	126-COLONIALTERMINALINC	10625416	101729GA	R13	B8	19.65
12/4/2007	589596	126-COLONIALTERMINALINC	10625417	101729GA	JB6	B8	20.86
12/4/2007	589598	126-COLONIALTERMINALINC	10625418	101729GA	DM03	B8	20.68

Table 4-2
Waste Transportation and Disposal Log
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Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
12/4/2007	589599	126-COLONIALTERMINALINC	10625419	101729GA	DM03	B8	19.94
12/4/2007	589600	126-COLONIALTERMINALINC	10625420	101729GA	506	B8	21.15
12/4/2007	589601	126-COLONIALTERMINALINC	10625421	101729GA	LC01	B8	19.56
12/4/2007	589603	126-COLONIALTERMINALINC	10625422	101729GA	R11	B8	18.61
12/4/2007	589606	126-COLONIALTERMINALINC	10625423	101729GA	R14	B8	19.76
12/4/2007	589609	126-COLONIALTERMINALINC	10625424	101729GA	3	B8	15.29
12/4/2007	589618	126-COLONIALTERMINALINC	10625425	101729GA	DM01	B8	16.46
12/4/2007	589619	126-COLONIALTERMINALINC	10625426	101729GA	LC02	B8	19.26
12/4/2007	589621	126-COLONIALTERMINALINC	10625427	101729GA		B8	19.48
12/4/2007	589623	126-COLONIALTERMINALINC	10625428	101729GA	M5	B8	20.07
12/4/2007	589627	126-COLONIALTERMINALINC	10625429	101729GA	R13	B8	18.38
12/5/2007	589650	126-COLONIALTERMINALINC	10625430	101729GA	LC02	B8	17.85
12/5/2007	589653	126-COLONIALTERMINALINC	10625431	101729GA	3	B9	14.42
12/5/2007	589655	126-COLONIALTERMINALINC	10625432	101729GA	LC01	B9	17.41
12/5/2007	589657	126-COLONIALTERMINALINC	10625433	101729GA	JB6	B9	18.61
12/5/2007	589659	126-COLONIALTERMINALINC	10625434	101729GA	M5	B9	19.43
12/5/2007	589663	126-COLONIALTERMINALINC	10625435	101729GA	R14	B9	17.45
12/5/2007	589671	126-COLONIALTERMINALINC	10625436	101729GA	R11	B9	17.68
12/5/2007	589672	126-COLONIALTERMINALINC	10625437	101729GA	R12	B9	18.31
12/5/2007	589660	126-COLONIALTERMINALINC	10625438	101729GA	LC04	B9	19.52
12/5/2007	589676	126-COLONIALTERMINALINC	10625439	101729GA	LC06	B9	17.03
12/5/2007	589681	126-COLONIALTERMINALINC	10625440	101729GA	R06	B9	20.53
12/5/2007	589685	126-COLONIALTERMINALINC	10625441	101729GA	DM03	B9	18.47
12/5/2007	589686	126-COLONIALTERMINALINC	10625442	101729GA	DM04	B9	19.28
12/5/2007	589687	126-COLONIALTERMINALINC	10625443	101729GA	DM01	B9	14.96
12/5/2007	589683	126-COLONIALTERMINALINC	10625444	101729GA	LC02	B9	19.17
12/5/2007	589704	126-COLONIALTERMINALINC	10625445	101729GA	3	B9	15.94
12/5/2007	589691	126-COLONIALTERMINALINC	10625446	101729GA	JB6	B9	19.7
12/5/2007	589694	126-COLONIALTERMINALINC	10625447	101729GA	LC01	B9	18.36
12/5/2007	589696	126-COLONIALTERMINALINC	10625448	101729GA	LC04	B9	18.09
12/5/2007	589699	126-COLONIALTERMINALINC	10625449	101729GA	R14	B9	16.92
12/5/2007	589702	126-COLONIALTERMINALINC	10625450	101729GA	R11	B9	18.19
12/5/2007	589709	126-COLONIALTERMINALINC	10625451	101729GA	R12	B9	19.39
12/11/2007	590611	126-COLONIALTERMINALINC	10625452	101729GA	R11	F4	18.3
12/11/2007	590615	126-COLONIALTERMINALINC	10625453	101729GA	R13	F4	18.14
12/11/2007	590622	126-COLONIALTERMINALINC	10625454	101729GA	506	F4	19.52
12/11/2007	590626	126-COLONIALTERMINALINC	10625455	101729GA	R12	F4	18.91
12/11/2007	590627	126-COLONIALTERMINALINC	10625456	101729GA	R14	F4	18.56
12/11/2007	590631	126-COLONIALTERMINALINC	10625457	101729GA	M5	F4	19.62
12/11/2007	590645	126-COLONIALTERMINALINC	10625458	101729GA	R11	F4	18.14
12/11/2007	590647	126-COLONIALTERMINALINC	10625459	101729GA	R13	F4	17.96
12/11/2007	590660	126-COLONIALTERMINALINC	10625460	101729GA	506	F4	20.25
12/11/2007	590662	126-COLONIALTERMINALINC	10625461	101729GA	R12	F4	19.6
12/11/2007	590665	126-COLONIALTERMINALINC	10625462	101729GA	R14	F4	18.64
12/11/2007	590669	126-COLONIALTERMINALINC	10625463	101729GA	M5	F4	19.51
12/11/2007	590682	126-COLONIALTERMINALINC	10625464	101729GA	R06	F4	18.87
12/11/2007	590691	126-COLONIALTERMINALINC	10625465	101729GA	R13	F4	18.82
12/11/2007	590692	126-COLONIALTERMINALINC	10625466	101729GA	R11	F4	17.55
12/11/2007	590699	126-COLONIALTERMINALINC	10625467	101729GA	506	F4	18.27
12/11/2007	590702	126-COLONIALTERMINALINC	10625468	101729GA	R12	F4	17.1
12/11/2007	590704	126-COLONIALTERMINALINC	10625469	101729GA	R14	F4	17.2
12/11/2007	590713	126-COLONIALTERMINALINC	10625470	101729GA	M5	F4	18.37
12/11/2007	590723	126-COLONIALTERMINALINC	10625471	101729GA	R06	F4	20.52
12/11/2007	590727	126-COLONIALTERMINALINC	10625472	101729GA	R13	F4	17.35
12/11/2007	590729	126-COLONIALTERMINALINC	10625473	101729GA	R11	F4	19.33
12/11/2007	590746	126-COLONIALTERMINALINC	10625474	101729GA	506	F4	20.35
12/11/2007	590743	126-COLONIALTERMINALINC	10625475	101729GA	R14	F4	17.92
12/11/2007	590759	126-COLONIALTERMINALINC	10625476	101729GA	R06	F4	20.81

Table 4-2
Waste Transportation and Disposal Log
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Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
12/12/2007	590778	126-COLONIALTERMINALINC	10625477	101729GA	SF03	F4	17.24
12/12/2007	590785	126-COLONIALTERMINALINC	10625478	101729GA	506	F4	20.69
12/12/2007	590784	126-COLONIALTERMINALINC	10625479	101729GA	SL02	F4	16.74
12/12/2007	590786	126-COLONIALTERMINALINC	10625480	101729GA	2	F4	14.8
12/12/2007	590788	126-COLONIALTERMINALINC	10625481	101729GA	LC01	F4	18.23
12/12/2007	590792	126-COLONIALTERMINALINC	10625482	101729GA	R11	F4	16.61
12/12/2007	590793	126-COLONIALTERMINALINC	10625483	101729GA	LC04	F4	18.72
12/12/2007	590908	126-COLONIALTERMINALINC	10625484	101729GA	R12	F4	16.27
12/12/2007	590794	126-COLONIALTERMINALINC	10625485	101729GA	R14	F4	16.67
12/12/2007	590800	126-COLONIALTERMINALINC	10625486	101729GA	R13	F4	17.21
12/12/2007	590810	126-COLONIALTERMINALINC	10625487	101729GA	R06	F4	18.62
12/12/2007	590831	126-COLONIALTERMINALINC	10625488	101729GA	B1	F4	19.33
12/12/2007	590830	126-COLONIALTERMINALINC	10625489	101729GA	SF03	F4	18.34
12/12/2007	590835	126-COLONIALTERMINALINC	10625490	101729GA	SL02	F4	16.18
12/12/2007	590836	126-COLONIALTERMINALINC	10625491	101729GA	R12	F4	16.73
12/12/2007	590838	126-COLONIALTERMINALINC	10625492	101729GA	LC04	F4	19.6
12/12/2007	590841	126-COLONIALTERMINALINC	10625493	101729GA	LC01	F4	16.84
12/12/2007	590843	126-COLONIALTERMINALINC	10625494	101729GA	2	F4	15.69
12/12/2007	590842	126-COLONIALTERMINALINC	10625495	101729GA	R14	F4	17.93
12/12/2007	590847	126-COLONIALTERMINALINC	10625496	101729GA	506	F4	15.96
12/12/2007	590852	126-COLONIALTERMINALINC	10625497	101729GA	R06	F4	20.93
12/12/2007	590848	126-COLONIALTERMINALINC	10625498	101729GA	R13	F4	19.44
12/12/2007	590874	126-COLONIALTERMINALINC	10625499	101729GA	B1	F4	20.56
12/12/2007	590875	126-COLONIALTERMINALINC	10625500	101729GA	R13	F4	17.05
12/12/2007	590879	126-COLONIALTERMINALINC	10625501	101729GA	LC04	F4	17.96
12/12/2007	590887	126-COLONIALTERMINALINC	10625502	101729GA	SF03	F4	19.79
12/12/2007	590888	126-COLONIALTERMINALINC	10625503	101729GA	R14	F4	19.86
12/12/2007	590896	126-COLONIALTERMINALINC	10625504	101729GA	SL02	F4	19.58
12/12/2007	590897	126-COLONIALTERMINALINC	10625505	101729GA	LC01	F4	19.16
12/12/2007	590898	126-COLONIALTERMINALINC	10625506	101729GA	506	F4	21.87
12/12/2007	590900	126-COLONIALTERMINALINC	10625507	101729GA	R13	F4	19.31
12/12/2007	590906	126-COLONIALTERMINALINC	10625508	101729GA	2	F4	16.46
12/12/2007	590907	126-COLONIALTERMINALINC	10625509	101729GA	R06	F4	21.21
12/12/2007	590929	126-COLONIALTERMINALINC	10625510	101729GA	B1	F4	18.04
12/12/2007	590940	126-COLONIALTERMINALINC	10625511	101729GA	LC04	F4	20.27
12/12/2007	590943	126-COLONIALTERMINALINC	10625512	101729GA	SF03	F4	18.14
12/12/2007	590954	126-COLONIALTERMINALINC	10625513	101729GA	LC01	F4	18.68
12/12/2007	590956	126-COLONIALTERMINALINC	10625514	101729GA	506	F4	21.53
12/12/2007	590960	126-COLONIALTERMINALINC	10625515	101729GA	SL02	F4	20.26
12/12/2007	590961	126-COLONIALTERMINALINC	10625516	101729GA	2	F4	17.45
12/12/2007	590981	126-COLONIALTERMINALINC	10625517	101729GA	B1	F4	21.53
12/12/2007	590989	126-COLONIALTERMINALINC	10625518	101729GA	SF03	F4	20.11
12/12/2007	590985	126-COLONIALTERMINALINC	10625519	101729GA	LC04	F4	21.36
12/12/2007	591002	126-COLONIALTERMINALINC	10625520	101729GA	506	F4	20.3
12/12/2007	591006	126-COLONIALTERMINALINC	10625521	101729GA	LC01	F4	19.3
12/12/2007	591008	126-COLONIALTERMINALINC	10625522	101729GA	2	F4	18.34
12/12/2007	591010	126-COLONIALTERMINALINC	10625523	101729GA	SL02	F4	18.41
12/12/2007	591011	126-COLONIALTERMINALINC	10625524	101729GA	R14	F4	19.14
12/12/2007	591018	126-COLONIALTERMINALINC	10625525	101729GA	B1	F4	20.66
12/12/2007	591024	126-COLONIALTERMINALINC	10625526	101729GA	LC04	B11	22.59
12/12/2007	591033	126-COLONIALTERMINALINC	10625527	101729GA	R13	B11	20.71
12/12/2007	591038	126-COLONIALTERMINALINC	10625528	101729GA	R06	B11	21.56
12/12/2007	591040	126-COLONIALTERMINALINC	10625529	101729GA	R12	B11	17.93
12/12/2007	591049	126-COLONIALTERMINALINC	10625530	101729GA	R11	B11	20.09
12/12/2007	591048	126-COLONIALTERMINALINC	10625531	101729GA	2	B11	18.12
12/12/2007	591051	126-COLONIALTERMINALINC	10625532	101729GA	LC01	B11	20.87
12/12/2007	591053	126-COLONIALTERMINALINC	10625533	101729GA	506	B11	17.64
12/12/2007	591055	126-COLONIALTERMINALINC	10625534	101729GA	SL02	B11	21.17

Table 4-2
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Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
12/12/2007	591057	126-COLONIALTERMINALINC	10625535	101729GA	B1	B11	22.52
12/12/2007	591061	126-COLONIALTERMINALINC	10625536	101729GA	R14	B11	20.4
12/12/2007	591063	126-COLONIALTERMINALINC	10625537	101729GA	LC04	B11	22.95
12/12/2007	591140	126-COLONIALTERMINALINC	10625538	101729GA	R13	B11	20.19
12/13/2007	591086	126-COLONIALTERMINALINC	10625539	101729GA	SF03	B11	20.06
12/13/2007	591087	126-COLONIALTERMINALINC	10625540	101729GA	2	B11	17.28
12/13/2007	591092	126-COLONIALTERMINALINC	10625541	101729GA	SL02	B11	18.08
12/13/2007	591095	126-COLONIALTERMINALINC	10625542	101729GA	506	B11	19.84
12/13/2007	591097	126-COLONIALTERMINALINC	10625543	101729GA	LC01	B11	18.88
12/13/2007	591098	126-COLONIALTERMINALINC	10625544	101729GA	R11	B11	18.82
12/13/2007	591101	126-COLONIALTERMINALINC	10625545	101729GA	R14	B11	18.27
12/13/2007	591109	126-COLONIALTERMINALINC	10625546	101729GA	R12	B11	19.45
12/13/2007	591114	126-COLONIALTERMINALINC	10625547	101729GA	R13	B11	18.82
12/13/2007	591121	126-COLONIALTERMINALINC	10625548	101729GA	R06	B11	19.57
12/13/2007	591125	126-COLONIALTERMINALINC	10625549	101729GA	SF03	B11	21.02
12/13/2007	591128	126-COLONIALTERMINALINC	10625550	101729GA	2	B11	17.41
12/13/2007	591137	126-COLONIALTERMINALINC	10625551	101729GA	SL02	B10	17.33
12/13/2007	591142	126-COLONIALTERMINALINC	10625552	101729GA	506	B10	19.24
12/13/2007	591141	126-COLONIALTERMINALINC	10625553	101729GA	R11	B10	16.84
12/13/2007	591143	126-COLONIALTERMINALINC	10625554	101729GA	R14	B10	18.1
12/13/2007	591318	126-COLONIALTERMINALINC	10625555	101729GA	LC01	B10	19.04
12/13/2007	591148	126-COLONIALTERMINALINC	10625556	101729GA	R12	B10	17.78
12/13/2007	591154	126-COLONIALTERMINALINC	10625557	101729GA	R11	B10	19.28
12/13/2007	591161	126-COLONIALTERMINALINC	10625558	101729GA	SF03	B10	18.08
12/13/2007	591169	126-COLONIALTERMINALINC	10625559	101729GA	R06	B10	20.11
12/13/2007	591168	126-COLONIALTERMINALINC	10625560	101729GA	2	B10	18.65
12/13/2007	591177	126-COLONIALTERMINALINC	10625561	101729GA	R11	B10	18.4
12/13/2007	591175	126-COLONIALTERMINALINC	10625562	101729GA	R14	B10	18.84
12/13/2007	591179	126-COLONIALTERMINALINC	10625563	101729GA	SL02	B10	19.31
12/13/2007	591183	126-COLONIALTERMINALINC	10625564	101729GA	506	B10	17.13
12/13/2007	591184	126-COLONIALTERMINALINC	10625565	101729GA	R12	B10	15
12/13/2007	591187	126-COLONIALTERMINALINC	10625566	101729GA	R13	B10	16.89
12/13/2007	591192	126-COLONIALTERMINALINC	10625567	101729GA	SF03	B10	17.11
12/13/2007	591205	126-COLONIALTERMINALINC	10625568	101729GA	2	B10	15.17
12/13/2007	591214	126-COLONIALTERMINALINC	10625569	101729GA	R06	B10	19.29
12/13/2007	591211	126-COLONIALTERMINALINC	10625570	101729GA	R14	B10	16.03
12/13/2007	591212	126-COLONIALTERMINALINC	10625571	101729GA	R11	B10	16.17
12/13/2007	591221	126-COLONIALTERMINALINC	10625572	101729GA	SL02	B10	17.38
12/13/2007	591223	126-COLONIALTERMINALINC	10625573	101729GA	R12	B10	16.35
12/13/2007	591225	126-COLONIALTERMINALINC	10625574	101729GA	506	B10	18.47
12/13/2007	591227	126-COLONIALTERMINALINC	10625575	101729GA	R13	B10	17.02
12/13/2007	591241	126-COLONIALTERMINALINC	10625576	101729GA	SF03	B10	18.77
12/13/2007	591244	126-COLONIALTERMINALINC	10625577	101729GA	R11	B10	17.12
12/13/2007	591247	126-COLONIALTERMINALINC	10625578	101729GA	2	B10	17.59
12/13/2007	591248	126-COLONIALTERMINALINC	10625579	101729GA	R14	B10	17.7
12/13/2007	591254	126-COLONIALTERMINALINC	10625580	101729GA	R12	B10	19.33
12/13/2007	591262	126-COLONIALTERMINALINC	10625581	101729GA	R13	B10	18.2
12/13/2007	591264	126-COLONIALTERMINALINC	10625582	101729GA	506	B10	18.93
12/13/2007	591266	126-COLONIALTERMINALINC	10625583	101729GA	SL02	B10	18.6
12/13/2007	591268	126-COLONIALTERMINALINC	10625584	101729GA	R06	B10	20.03
12/13/2007	591278	126-COLONIALTERMINALINC	10625585	101729GA	R11	B10	19
12/13/2007	591287	126-COLONIALTERMINALINC	10625586	101729GA	SF03	B10	18.67
12/13/2007	591286	126-COLONIALTERMINALINC	10625587	101729GA	R14	B10	19.49
12/13/2007	591298	126-COLONIALTERMINALINC	10625588	101729GA	R12	B10	19.43
12/13/2007	591301	126-COLONIALTERMINALINC	10625589	101729GA	R13	B10	19.34
12/13/2007	591304	126-COLONIALTERMINALINC	10625590	101729GA	2	B10	17.82
12/13/2007	591307	126-COLONIALTERMINALINC	10625591	101729GA	SL02	B10	21.16
12/13/2007	591309	126-COLONIALTERMINALINC	10625592	101729GA	506	B10	22.52

Table 4-2
Waste Transportation and Disposal Log
Colonial Terminals
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Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
12/13/2007	591311	126-COLONIALTERMINALINC	10625593	101729GA	R06	B10	18.16
12/13/2007	591314	126-COLONIALTERMINALINC	10625594	101729GA	R11	B10	17.1
12/13/2007	591324	126-COLONIALTERMINALINC	10625595	101729GA	SF03	B10	18.85
12/17/2007	591687	126-COLONIALTERMINALINC	10625642	101729GA	JB6	F2	17.4
12/17/2007	591696	126-COLONIALTERMINALINC	10625643	101729GA	SL02	F2	18.93
12/17/2007	591699	126-COLONIALTERMINALINC	10625644	101729GA	R06	F2	19.75
12/17/2007	591712	126-COLONIALTERMINALINC	10625645	101729GA	GL04	F2	16.93
12/17/2007	591709	126-COLONIALTERMINALINC	10625646	101729GA	GL01	F2	19.46
12/17/2007	591715	126-COLONIALTERMINALINC	10625647	101729GA	R12	F2	18.54
12/17/2007	591722	126-COLONIALTERMINALINC	10625648	101729GA	GL03	F2	21.59
12/17/2007	591721	126-COLONIALTERMINALINC	10625649	101729GA	LC02	F2	15.36
12/17/2007	591727	126-COLONIALTERMINALINC	10625650	101729GA	R14	F2	16.76
12/17/2007	591735	126-COLONIALTERMINALINC	10625651	101729GA	SF03	F2	16.05
12/17/2007	591742	126-COLONIALTERMINALINC	10642901	101729GA	R13	F2	17.08
12/17/2007	591744	126-COLONIALTERMINALINC	10642902	101729GA	506	F2	16.98
12/17/2007	591745	126-COLONIALTERMINALINC	10642903	101729GA	LC04	F2	17.73
12/17/2007	591754	126-COLONIALTERMINALINC	10642904	101729GA	M5	F2	18.89
12/17/2007	591753	126-COLONIALTERMINALINC	10642905	101729GA	2	F2	17.97
12/17/2007	591761	126-COLONIALTERMINALINC	10642906	101729GA	JB6	F2	19.42
12/17/2007	591768	126-COLONIALTERMINALINC	10642907	101729GA	R11	F2	18.29
12/17/2007	591766	126-COLONIALTERMINALINC	10642908	101729GA	SL02	F2	19.64
12/17/2007	591767	126-COLONIALTERMINALINC	10642909	101729GA	R06	F2	18.1
12/17/2007	591771	126-COLONIALTERMINALINC	10642910	101729GA	GL01	F2	17.19
12/17/2007	591772	126-COLONIALTERMINALINC	10642911	101729GA	GL04	F2	17.62
12/17/2007	591774	126-COLONIALTERMINALINC	10642912	101729GA	R12	F2	17.94
12/17/2007	591775	126-COLONIALTERMINALINC	10642913	101729GA	R14	F2	14.98
12/17/2007	591788	126-COLONIALTERMINALINC	10642914	101729GA	GL03	F2	20.5
12/17/2007	591785	126-COLONIALTERMINALINC	10642915	101729GA	R13	F2	17.77
12/17/2007	591791	126-COLONIALTERMINALINC	10642916	101729GA	LC04	F2	14.65
12/17/2007	591797	126-COLONIALTERMINALINC	10642917	101729GA	506	F2	18.86
12/17/2007	591803	126-COLONIALTERMINALINC	10642918	101729GA	2	F2	17.21
12/17/2007	591808	126-COLONIALTERMINALINC	10642919	101729GA	M5	F2	19.26
12/17/2007	591809	126-COLONIALTERMINALINC	10642920	101729GA	JB6	F2	20.47
12/17/2007	591811	126-COLONIALTERMINALINC	10642921	101729GA	R11	F2	17.91
12/17/2007	591820	126-COLONIALTERMINALINC	10642922	101729GA	R06	F2	20.91
12/17/2007	591824	126-COLONIALTERMINALINC	10642923	101729GA	SL02	F2	19.44
12/17/2007	591826	126-COLONIALTERMINALINC	10642924	101729GA	LC02	F2	19.23
12/17/2007	591829	126-COLONIALTERMINALINC	10642925	101729GA	SF03	F2	20.55
12/17/2007	591833	126-COLONIALTERMINALINC	10642926	101729GA	R12	F2	17.86
12/17/2007	591838	126-COLONIALTERMINALINC	10642927	101729GA	GL04	F2	17.62
12/17/2007	591845	126-COLONIALTERMINALINC	10642928	101729GA	R14	F2	18.41
12/17/2007	591848	126-COLONIALTERMINALINC	10642929	101729GA	GL01	F2	19.91
12/17/2007	591852	126-COLONIALTERMINALINC	10642930	101729GA	R13	F2	17.41
12/17/2007	591867	126-COLONIALTERMINALINC	10642931	101729GA	GL03	F2	19.36
12/17/2007	591860	126-COLONIALTERMINALINC	10642932	101729GA	LC04	F2	17.68
12/17/2007	591874	126-COLONIALTERMINALINC	10642933	101729GA	506	F2	19.12
12/17/2007	591872	126-COLONIALTERMINALINC	10642934	101729GA	2	F2	17.9
12/17/2007	591875	126-COLONIALTERMINALINC	10642935	101729GA	M5	F2	17.9
12/17/2007	591876	126-COLONIALTERMINALINC	10642936	101729GA	JB6	F2	18.14
12/18/2007	591969	126-COLONIALTERMINALINC	10642937	101729GA	2	F2	19.26
12/18/2007	591978	126-COLONIALTERMINALINC	10642938	101729GA	82	F2	19.71
12/18/2007	591977	126-COLONIALTERMINALINC	10642939	101729GA	GL01	F2	20.9
12/18/2007	591985	126-COLONIALTERMINALINC	10642940	101729GA	R13	F2	22.07
12/18/2007	592037	126-COLONIALTERMINALINC	10642941	101729GA	R13	F2	21.27
12/18/2007	592044	126-COLONIALTERMINALINC	10642942	101729GA	R14	F2	20.94
12/18/2007	591962	126-COLONIALTERMINALINC	10642943	101729GA	506	F3	20.52
12/18/2007	591979	126-COLONIALTERMINALINC	10642944	101729GA	81	F3	20.69
12/18/2007	591982	126-COLONIALTERMINALINC	10642945	101729GA	M5	F3	18.54

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Waste Transportation and Disposal Log
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Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
12/18/2007	591997	126-COLONIALTERMINALINC	10642946	101729GA	R14	F3	16.35
12/18/2007	591986	126-COLONIALTERMINALINC	10642947	101729GA	JB6	F3	18.09
12/18/2007	591991	126-COLONIALTERMINALINC	10642948	101729GA	GL04	F3	15.79
12/18/2007	591992	126-COLONIALTERMINALINC	10642949	101729GA	R11	F3	16.1
12/18/2007	591994	126-COLONIALTERMINALINC	10642950	101729GA	R06	F3	20.51
12/18/2007	592006	126-COLONIALTERMINALINC	10642951	101729GA	GL03	F3	21.6
12/18/2007	592004	126-COLONIALTERMINALINC	10642952	101729GA	R12	F3	19.14
12/18/2007	592017	126-COLONIALTERMINALINC	10642953	101729GA	506	F3	19.78
12/18/2007	592025	126-COLONIALTERMINALINC	10642955	101729GA	GL01	F3	20.58
12/18/2007	592031	126-COLONIALTERMINALINC	10642956	101729GA	82	F3	17.15
12/18/2007	592032	126-COLONIALTERMINALINC	10642957	101729GA	81	F3	22.07
12/18/2007	592034	126-COLONIALTERMINALINC	10642958	101729GA	JB6	F3	21.33
12/18/2007	592035	126-COLONIALTERMINALINC	10642959	101729GA	R11	F3	17.41
12/18/2007	592040	126-COLONIALTERMINALINC	10642960	101729GA	R06	F3	20.98
12/18/2007	592043	126-COLONIALTERMINALINC	10642961	101729GA	M5	F3	18.77
12/18/2007	592045	126-COLONIALTERMINALINC	10642962	101729GA	GL04	F3	16.26
12/18/2007	592048	126-COLONIALTERMINALINC	10642963	101729GA	R12	F3	17.63
12/18/2007	592057	126-COLONIALTERMINALINC	10642964	101729GA	GL03	F3	17.5
12/18/2007	592055	126-COLONIALTERMINALINC	10642965	101729GA	506	F3	16.41
12/18/2007	592059	126-COLONIALTERMINALINC	10642966	101729GA	GL01	F3	13.71
12/18/2007	592074	126-COLONIALTERMINALINC	10642967	101729GA	JB6	F3	18.85
12/18/2007	592079	126-COLONIALTERMINALINC	10642968	101729GA	82	F3	17.02
12/18/2007	592080	126-COLONIALTERMINALINC	10642969	101729GA	81	F3	20.69
12/18/2007	592078	126-COLONIALTERMINALINC	10642970	101729GA	R11	F3	19.16
12/18/2007	592081	126-COLONIALTERMINALINC	10642971	101729GA	R13	F3	20.21
12/18/2007	592083	126-COLONIALTERMINALINC	10642972	101729GA	R06	F3	20.82
12/18/2007	592086	126-COLONIALTERMINALINC	10642973	101729GA	M5	F3	21.21
12/18/2007	592085	126-COLONIALTERMINALINC	10642974	101729GA	R14	F3	18.79
12/18/2007	592088	126-COLONIALTERMINALINC	10642975	101729GA	GL04	F3	17.93
12/18/2007	592089	126-COLONIALTERMINALINC	10642976	101729GA	R12	F3	18.54
12/18/2007	592096	126-COLONIALTERMINALINC	10642977	101729GA	506	F3	22.78
12/18/2007	592105	126-COLONIALTERMINALINC	10642978	101729GA	GL03	F3	21.41
12/18/2007	592113	126-COLONIALTERMINALINC	10642979	101729GA	JB6	F3	18.79
12/18/2007	592121	126-COLONIALTERMINALINC	10642980	101729GA	R11	F3	18.77
12/18/2007	592123	126-COLONIALTERMINALINC	10642981	101729GA	R13	F3	19.73
12/18/2007	592128	126-COLONIALTERMINALINC	10642982	101729GA	82	F3	20.53
12/18/2007	592129	126-COLONIALTERMINALINC	10642983	101729GA	81	F3	23.2
12/18/2007	592131	126-COLONIALTERMINALINC	10642984	101729GA	R14	F3	19.24
12/18/2007	592143	126-COLONIALTERMINALINC	10642985	101729GA	R06	F3	21.61
12/18/2007	592134	126-COLONIALTERMINALINC	10642986	101729GA	GL04	F3	18.4
12/18/2007	592140	126-COLONIALTERMINALINC	10642987	101729GA	M5	F3	18.9
12/18/2007	592139	126-COLONIALTERMINALINC	10642988	101729GA	R12	F3	18.82
12/18/2007	592144	126-COLONIALTERMINALINC	10642989	101729GA	506	F3	22.54
12/18/2007	592151	126-COLONIALTERMINALINC	10642990	101729GA	GL03	F3	21.94
12/18/2007	592153	126-COLONIALTERMINALINC	10642991	101729GA	JB6	F3	20.5
12/18/2007	592154	126-COLONIALTERMINALINC	10642992	101729GA	R11	F3	18.65
12/18/2007	592162	126-COLONIALTERMINALINC	10642993	101729GA	R13	F3	18.89
12/18/2007	592166	126-COLONIALTERMINALINC	10642994	101729GA	82	F3	17.79
12/18/2007	592167	126-COLONIALTERMINALINC	10642995	101729GA	81	F3	19.3
12/18/2007	592173	126-COLONIALTERMINALINC	10642996	101729GA	R14	F3	18.58
12/18/2007	592175	126-COLONIALTERMINALINC	10642997	101729GA	GL04	F3	19.29
12/18/2007	592176	126-COLONIALTERMINALINC	10642998	101729GA	R12	F3	17.17
12/18/2007	592178	126-COLONIALTERMINALINC	10642999	101729GA	M5	F3	20.73
12/18/2007	592179	126-COLONIALTERMINALINC	10643000	101729GA	506	F3	14.79
12/19/2007	592192	126-COLONIALTERMINALINC	10643001	101729GA	R11	F3	18.69
12/19/2007	592208	126-COLONIALTERMINALINC	10643002	101729GA	82	F3	20.15
12/19/2007	592209	126-COLONIALTERMINALINC	10643003	101729GA	81	F3	22.1
12/19/2007	592217	126-COLONIALTERMINALINC	10643004	101729GA	M5	F3	20.52

Table 4-2
Waste Transportation and Disposal Log
Colonial Terminals
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Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
12/19/2007	592216	126-COLONIALTERMINALINC	10643005	101729GA	506	F3	21.64
12/19/2007	592219	126-COLONIALTERMINALINC	10643006	101729GA	JB6	F3	19.09
12/19/2007	592221	126-COLONIALTERMINALINC	10643007	101729GA	2	F3	18.13
12/19/2007	592223	126-COLONIALTERMINALINC	10643008	101729GA	R06	F3	21.14
12/19/2007	592222	126-COLONIALTERMINALINC	10643009	101729GA	R14	F3	17.6
12/19/2007	592225	126-COLONIALTERMINALINC	10643010	101729GA	R11	F3	19.08
12/19/2007	592230	126-COLONIALTERMINALINC	10643011	101729GA	GL01	F3	19.78
12/19/2007	592231	126-COLONIALTERMINALINC	10643012	101729GA	GL05	F3	19.9
12/19/2007	592236	126-COLONIALTERMINALINC	10643013	101729GA	GL03	F3	22.81
12/19/2007	592250	126-COLONIALTERMINALINC	10643014	101729GA	R12	F3	18.66
12/19/2007	592258	126-COLONIALTERMINALINC	10643015	101729GA	JB6	F3	20.25
12/19/2007	592261	126-COLONIALTERMINALINC	10643016	101729GA	82	F3	19.65
12/19/2007	592262	126-COLONIALTERMINALINC	10643017	101729GA	81	F3	22.38
12/19/2007	592269	126-COLONIALTERMINALINC	10643018	101729GA	506	F3	21.42
12/19/2007	592265	126-COLONIALTERMINALINC	10643019	101729GA	M5	F3	19.47
12/19/2007	592264	126-COLONIALTERMINALINC	10643020	101729GA	R14	F3	20.15
12/19/2007	592268	126-COLONIALTERMINALINC	10643021	101729GA	2	F3	17.71
12/19/2007	592270	126-COLONIALTERMINALINC	10643022	101729GA	R06	F3	19.92
12/19/2007	592276	126-COLONIALTERMINALINC	10643023	101729GA	GL04	F3	18.08
12/19/2007	592277	126-COLONIALTERMINALINC	10643024	101729GA	GL01	F3	19.22
12/19/2007	592278	126-COLONIALTERMINALINC	10643025	101729GA	GL05	F3	20.46
12/19/2007	592289	126-COLONIALTERMINALINC	10643026	101729GA	R11	F3	19.32
12/19/2007	592293	126-COLONIALTERMINALINC	10643027	101729GA	GL03	F3	22.18
12/19/2007	592298	126-COLONIALTERMINALINC	10643028	101729GA	R12	F3	19.73
12/19/2007	592301	126-COLONIALTERMINALINC	10643029	101729GA	JB6	F3	19.89
12/19/2007	592305	126-COLONIALTERMINALINC	10643030	101729GA	82	F3	19.87
12/19/2007	592306	126-COLONIALTERMINALINC	10643031	101729GA	R13	F3	20.33
12/19/2007	592307	126-COLONIALTERMINALINC	10643032	101729GA	81	F3	20.24
12/19/2007	592317	126-COLONIALTERMINALINC	10643033	101729GA	R14	F5	17.56
12/19/2007	592325	126-COLONIALTERMINALINC	10643034	101729GA	M5	F5	20.42
12/19/2007	592322	126-COLONIALTERMINALINC	10643035	101729GA	R06	F5	20.38
12/19/2007	592328	126-COLONIALTERMINALINC	10643036	101729GA	2	F5	19.64
12/19/2007	592330	126-COLONIALTERMINALINC	10643037	101729GA	GL01	F5	19.79
12/19/2007	592331	126-COLONIALTERMINALINC	10643038	101729GA	GL04	F5	17.13
12/19/2007	592332	126-COLONIALTERMINALINC	10643039	101729GA	GL05	F5	20.02
12/19/2007	592343	126-COLONIALTERMINALINC	10643040	101729GA	506	F5	13.87
12/19/2007	592342	126-COLONIALTERMINALINC	10643041	101729GA	R11	F5	20.78
12/19/2007	592353	126-COLONIALTERMINALINC	10643042	101729GA	GL03	F5	22.11
12/19/2007	592358	126-COLONIALTERMINALINC	10643043	101729GA	R12	F5	19.73
12/19/2007	592363	126-COLONIALTERMINALINC	10643044	101729GA	JB6	F5	20.21
12/19/2007	592365	126-COLONIALTERMINALINC	10643045	101729GA	R13	F5	19.76
12/19/2007	592376	126-COLONIALTERMINALINC	10643046	101729GA	81	F5	22.84
12/19/2007	592375	126-COLONIALTERMINALINC	10643047	101729GA	82	F5	19.21
12/19/2007	592378	126-COLONIALTERMINALINC	10643048	101729GA	R14	F5	19.6
12/19/2007	592382	126-COLONIALTERMINALINC	10643049	101729GA	M5	F5	22
12/19/2007	592386	126-COLONIALTERMINALINC	10643050	101729GA	GL01	F5	22.01
12/19/2007	592384	126-COLONIALTERMINALINC	10643051	101729GA	R06	F5	21.77
12/19/2007	592385	126-COLONIALTERMINALINC	10643052	101729GA	GL05	F5	20.94
12/19/2007	592387	126-COLONIALTERMINALINC	10643053	101729GA	2	F5	18.96
12/19/2007	592391	126-COLONIALTERMINALINC	10643054	101729GA	R11	F5	19.94
12/19/2007	592403	126-COLONIALTERMINALINC	10643055	101729GA	506	F5	18.89
12/19/2007	592404	126-COLONIALTERMINALINC	10643056	101729GA	GL03	F5	23.02
12/19/2007	592407	126-COLONIALTERMINALINC	10643057	101729GA	JB6	F5	21.09
12/19/2007	592411	126-COLONIALTERMINALINC	10643058	101729GA	R12	F5	19.43
12/19/2007	592414	126-COLONIALTERMINALINC	10643059	101729GA	R13	F5	17.47
12/19/2007	592424	126-COLONIALTERMINALINC	10643060	101729GA	82	F5	16.5
12/19/2007	592427	126-COLONIALTERMINALINC	10643061	101729GA	81	F5	20.11
12/19/2007	592431	126-COLONIALTERMINALINC	10643062	101729GA	R14	F5	15.35

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Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
12/19/2007	592435	126-COLONIALTERMINALINC	10643063	101729GA	M5	F5	15.85
12/19/2007	592434	126-COLONIALTERMINALINC	10643064	101729GA	GL01	F5	16.49
12/19/2007	592436	126-COLONIALTERMINALINC	10643065	101729GA	GL05	F5	11.9
12/19/2007	592440	126-COLONIALTERMINALINC	10643066	101729GA	R06	F5	17.24
12/19/2007	592444	126-COLONIALTERMINALINC	10643067	101729GA	2	F5	13.3
12/19/2007	592445	126-COLONIALTERMINALINC	10643068	101729GA	R11	F5	14.22
12/19/2007	592447	126-COLONIALTERMINALINC	10643069	101729GA	GL03	F5	15.84
12/19/2007	592454	126-COLONIALTERMINALINC	10643070	101729GA	JB6	F5	16.27
12/19/2007	592455	126-COLONIALTERMINALINC	10643071	101729GA	R12	F5	13.39
12/19/2007	592461	126-COLONIALTERMINALINC	10643072	101729GA	R13	F5	14.1
12/19/2007	592465	126-COLONIALTERMINALINC	10643073	101729GA	82	F5	13.53
12/19/2007	592466	126-COLONIALTERMINALINC	10643074	101729GA	81	F5	15.67
12/20/2007	592485	126-COLONIALTERMINALINC	10643075	101729GA	R12	F5	20.07
12/20/2007	592486	126-COLONIALTERMINALINC	10643076	101729GA	R14	F5	21.13
12/20/2007	592491	126-COLONIALTERMINALINC	10643077	101729GA	GL04	F5	18.02
12/20/2007	592496	126-COLONIALTERMINALINC	10643078	101729GA	GL05	F5	20.37
12/20/2007	592498	126-COLONIALTERMINALINC	10643079	101729GA	JB6	F5	20.96
12/20/2007	592501	126-COLONIALTERMINALINC	10643080	101729GA	R11	F5	18
12/20/2007	592505	126-COLONIALTERMINALINC	10643081	101729GA	GL01	F5	19.94
12/20/2007	592511	126-COLONIALTERMINALINC	10643082	101729GA	82	F5	18.19
12/20/2007	592512	126-COLONIALTERMINALINC	10643083	101729GA	81	F5	21.19
12/20/2007	592516	126-COLONIALTERMINALINC	10643084	101729GA	R13	F5	17.82
12/20/2007	592522	126-COLONIALTERMINALINC	10643085	101729GA	R06	F5	21.43
12/20/2007	592527	126-COLONIALTERMINALINC	10643086	101729GA	GL03	F5	16.99
12/20/2007	592531	126-COLONIALTERMINALINC	10643087	101729GA	B1	F5	14.12
12/20/2007	592536	126-COLONIALTERMINALINC	10643088	101729GA	M5	F5	19.7
12/20/2007	592538	126-COLONIALTERMINALINC	10643089	101729GA	R12	F5	16.75
12/20/2007	592541	126-COLONIALTERMINALINC	10643090	101729GA	R14	F5	18.79
12/20/2007	592543	126-COLONIALTERMINALINC	10643091	101729GA	JB6	F5	18.1
12/20/2007	592545	126-COLONIALTERMINALINC	10643092	101729GA	GL04	F5	17.32
12/20/2007	592546	126-COLONIALTERMINALINC	10643093	101729GA	R11	F5	18.5
12/20/2007	592555	126-COLONIALTERMINALINC	10643094	101729GA	GL01	F5	17.8
12/20/2007	592556	126-COLONIALTERMINALINC	10643095	101729GA	82	F5	17.39
12/20/2007	592560	126-COLONIALTERMINALINC	10643096	101729GA	81	F5	20.6
12/20/2007	592562	126-COLONIALTERMINALINC	10643097	101729GA	R13	F5	16.87
12/20/2007	592566	126-COLONIALTERMINALINC	10643098	101729GA	R13	F5	18.47
12/20/2007	592567	126-COLONIALTERMINALINC	10643099	101729GA	GL03	F5	15.81
12/20/2007	592570	126-COLONIALTERMINALINC	10643100	101729GA	B1	F5	17.35
12/20/2007	592572	126-COLONIALTERMINALINC	10643101	101729GA	M5	F5	16.87
12/20/2007	592571	126-COLONIALTERMINALINC	10643102	101729GA	R12	F5	16.16
12/20/2007	592574	126-COLONIALTERMINALINC	10643103	101729GA	R14	F5	16.9
12/20/2007	592575	126-COLONIALTERMINALINC	10643104	101729GA	JB6	F5	18.66
12/20/2007	592577	126-COLONIALTERMINALINC	10643105	101729GA	GL04	F5	16.51
12/20/2007	592578	126-COLONIALTERMINALINC	10643106	101729GA	R11	F5	17.64
12/20/2007	592584	126-COLONIALTERMINALINC	10643107	101729GA	DM03	F5	19.58
12/20/2007	592586	126-COLONIALTERMINALINC	10643108	101729GA	DM04	F5	18.62
12/20/2007	592600	126-COLONIALTERMINALINC	10643109	101729GA	DM01	F5	15.72
12/20/2007	592596	126-COLONIALTERMINALINC	10643110	101729GA	LC02	F5	20.39
12/20/2007	592605	126-COLONIALTERMINALINC	10643111	101729GA	GL01	F5	19.36
12/20/2007	592610	126-COLONIALTERMINALINC	10643112	101729GA	82	F5	20.56
12/20/2007	592609	126-COLONIALTERMINALINC	10643113	101729GA	81	F5	18.4
12/20/2007	592616	126-COLONIALTERMINALINC	10643114	101729GA	R06	F5	22
12/20/2007	592630	126-COLONIALTERMINALINC	10643115	101729GA	GL03	F5	24.07
12/20/2007	592621	126-COLONIALTERMINALINC	10643116	101729GA	B1	F5	21.84
12/20/2007	592617	126-COLONIALTERMINALINC	10643117	101729GA	R12	F5	20.7
12/20/2007	592622	126-COLONIALTERMINALINC	10643118	101729GA	R14	F5	20.83
12/20/2007	592625	126-COLONIALTERMINALINC	10643119	101729GA	M5	F5	22.96
12/20/2007	592624	126-COLONIALTERMINALINC	10643120	101729GA	R13	F5	20.82

Table 4-2
Waste Transportation and Disposal Log
Colonial Terminals
Savannah, GA
HSI Site 10098

Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
12/20/2007	592626	126-COLONIALTERMINALINC	10643121	101729GA	R11	F5	20.45
12/20/2007	592628	126-COLONIALTERMINALINC	10643122	101729GA	GL04	F5	19.27
12/20/2007	592633	126-COLONIALTERMINALINC	10643123	101729GA	JB6	F5	24.25
12/20/2007	592636	126-COLONIALTERMINALINC	10643124	101729GA	DM03	F5	20.7
12/20/2007	592638	126-COLONIALTERMINALINC	10643125	101729GA	DM04	F5	21.41
12/20/2007	592641	126-COLONIALTERMINALINC	10643126	101729GA	DM01	F5	15.92
12/20/2007	592645	126-COLONIALTERMINALINC	10643127	101729GA	LC02	F5	21.75
12/20/2007	592649	126-COLONIALTERMINALINC	10643128	101729GA	H2	F5	21.66
12/20/2007	592652	126-COLONIALTERMINALINC	10643129	101729GA	GL01	F5	20.49
12/20/2007	592655	126-COLONIALTERMINALINC	10643130	101729GA	R06	F5	21.29
12/20/2007	592658	126-COLONIALTERMINALINC	10643131	101729GA	R12	F5	18.93
12/20/2007	592659	126-COLONIALTERMINALINC	10643132	101729GA	82	F5	20.66
12/20/2007	592661	126-COLONIALTERMINALINC	10643133	101729GA	81	F5	20.23
12/20/2007	592666	126-COLONIALTERMINALINC	10643134	101729GA	R14	F5	20.2
12/20/2007	592668	126-COLONIALTERMINALINC	10643135	101729GA	R11	F5	20.28
12/20/2007	592682	126-COLONIALTERMINALINC	10643136	101729GA	SS1	F5	20.55
12/20/2007	592681	126-COLONIALTERMINALINC	10643137	101729GA	GL03	F5	21.65
12/20/2007	592683	126-COLONIALTERMINALINC	10643138	101729GA	JB6	F5	20.87
12/20/2007	592685	126-COLONIALTERMINALINC	10643139	101729GA	GL04	F5	19.44
12/20/2007	592687	126-COLONIALTERMINALINC	10643140	101729GA	M5	F5	21.16
12/20/2007	592694	126-COLONIALTERMINALINC	10643141	101729GA	DM03	F5	17.98
12/20/2007	592695	126-COLONIALTERMINALINC	10643142	101729GA	GL01	F5	20
12/20/2007	592700	126-COLONIALTERMINALINC	10643143	101729GA	LC02	F5	23.33
12/20/2007	592701	126-COLONIALTERMINALINC	10643144	101729GA	H2	F5	22.41
12/20/2007	592702	126-COLONIALTERMINALINC	10643145	101729GA	DM04	F5	19.37
12/20/2007	592703	126-COLONIALTERMINALINC	10643146	101729GA	R12	F5	20.79
12/20/2007	592706	126-COLONIALTERMINALINC	10643147	101729GA	81	F5	18.23
12/20/2007	592705	126-COLONIALTERMINALINC	10643148	101729GA	R14	F5	20.65
12/20/2007	592713	126-COLONIALTERMINALINC	10643149	101729GA	DM01	F5	17.08
12/20/2007	592711	126-COLONIALTERMINALINC	10643150	101729GA	R11	F5	20.86
12/20/2007	592717	126-COLONIALTERMINALINC	10643151	101729GA	R06	F5	21.4
12/20/2007	592716	126-COLONIALTERMINALINC	10643152	101729GA	82	F5	20.03
12/20/2007	592724	126-COLONIALTERMINALINC	10643153	101729GA	JB6	F5	22.21
12/20/2007	592725	126-COLONIALTERMINALINC	10643154	101729GA	GL04	F5	19.8
12/20/2007	592730	126-COLONIALTERMINALINC	10643155	101729GA	GL03	F5	23.16
12/20/2007	592731	126-COLONIALTERMINALINC	10643156	101729GA	SS1	F5	20.05
12/20/2007	592732	126-COLONIALTERMINALINC	10643157	101729GA	M5	F5	21.93
12/20/2007	592735	126-COLONIALTERMINALINC	10643158	101729GA	DM03	F5	20.4
12/20/2007	592739	126-COLONIALTERMINALINC	10643159	101729GA	GL01	F5	17.04
12/20/2007	592742	126-COLONIALTERMINALINC	10643160	101729GA	LC02	F5	20.75
12/20/2007	592743	126-COLONIALTERMINALINC	10643161	101729GA	R12	F5	19.26
12/20/2007	592746	126-COLONIALTERMINALINC	10643162	101729GA	R14	F5	19.17
12/20/2007	592747	126-COLONIALTERMINALINC	10643163	101729GA	81	F5	18.81
12/20/2007	592751	126-COLONIALTERMINALINC	10643164	101729GA	82	F5	21.43
12/20/2007	592753	126-COLONIALTERMINALINC	10643165	101729GA	H2	F5	21.99
12/20/2007	592754	126-COLONIALTERMINALINC	10643166	101729GA	DM01	F5	16.69
12/20/2007	592755	126-COLONIALTERMINALINC	10643167	101729GA	R06	F5	21.62
12/20/2007	592756	126-COLONIALTERMINALINC	10643168	101729GA	DM04	F5	21.21
12/20/2007	592757	126-COLONIALTERMINALINC	10643169	101729GA	GL04	F5	17.9
12/20/2007	592761	126-COLONIALTERMINALINC	10643170	101729GA	JB6	F5	23.3
12/26/2007	593072	126-COLONIALTERMINALINC	10643171	101729GA	SL02	F5	18.67
12/26/2007	593082	126-COLONIALTERMINALINC	10643172	101729GA	SL04	F5	18.96
12/26/2007	593084	126-COLONIALTERMINALINC	10643173	101729GA	SF03	F5	20.62
12/26/2007	593087	126-COLONIALTERMINALINC	10643174	101729GA	JB6	F5	23.42
12/26/2007	593088	126-COLONIALTERMINALINC	10643175	101729GA	DM03	F5	21.53
12/26/2007	593091	126-COLONIALTERMINALINC	10643176	101729GA	DM01	F5	17.63
12/26/2007	593171	126-COLONIALTERMINALINC	10643177	101729GA	506	F5	23.32
12/26/2007	593176	126-COLONIALTERMINALINC	10643178	101729GA	M5	F5	22.57

Table 4-2
Waste Transportation and Disposal Log
Colonial Terminals
Savannah, GA
HSI Site 10098

Ticket Date	Ticket ID	Generator	Manifest	Profile	Truck	StockPile ID	Tons
12/26/2007	593177	126-COLONIALTERMINALINC	10643179	101729GA	SL02	F5	21.88
12/26/2007	593178	126-COLONIALTERMINALINC	10643180	101729GA	LC03	F5	22.76
12/26/2007	593180	126-COLONIALTERMINALINC	10643181	101729GA	SL04	F5	22.45
12/26/2007	593092	126-COLONIALTERMINALINC	10643182	101729GA	DM04	F5	22.76
12/26/2007	593093	126-COLONIALTERMINALINC	10643183	101729GA	LC01	F5	19.88
12/26/2007	593095	126-COLONIALTERMINALINC	10643184	101729GA	LC02	F5	22.39
12/26/2007	593097	126-COLONIALTERMINALINC	10643185	101729GA	506	F5	23.72
12/26/2007	593099	126-COLONIALTERMINALINC	10643186	101729GA	M5	F5	22.71
12/26/2007	593107	126-COLONIALTERMINALINC	10643187	101729GA	LC03	F5	23.54
12/26/2007	593167	126-COLONIALTERMINALINC	10643188	101729GA	LC01	F5	21.61
12/26/2007	593109	126-COLONIALTERMINALINC	10643189	101729GA	SL02	F5	22.08
12/26/2007	593110	126-COLONIALTERMINALINC	10643190	101729GA	SL04	F5	20.68
12/26/2007	593114	126-COLONIALTERMINALINC	10643191	101729GA	SF03	F5	21.46
12/26/2007	593118	126-COLONIALTERMINALINC	10643192	101729GA	DM03	F5	22.07
12/26/2007	593139	126-COLONIALTERMINALINC	10643193	101729GA	M5	F5	21.41
12/26/2007	593142	126-COLONIALTERMINALINC	10643194	101729GA	GL03	F5	23.75
12/26/2007	593145	126-COLONIALTERMINALINC	10643195	101729GA	SL02	F5	20.11
12/26/2007	593120	126-COLONIALTERMINALINC	10643196	101729GA	DM01	F5	17.72
12/26/2007	593125	126-COLONIALTERMINALINC	10643197	101729GA	DM04	F5	22.08
12/26/2007	593127	126-COLONIALTERMINALINC	10643198	101729GA	SS1	F5	22.48
12/26/2007	593129	126-COLONIALTERMINALINC	10643199	101729GA	LC01	F5	20.54
12/26/2007	593133	126-COLONIALTERMINALINC	10643200	101729GA	LC02	F5	23.18
12/26/2007	593134	126-COLONIALTERMINALINC	10643201	101729GA	JB6	F5	21.55
12/26/2007	593136	126-COLONIALTERMINALINC	10643202	101729GA	506	F5	21.11
12/26/2007	593147	126-COLONIALTERMINALINC	10643203	101729GA	LC03	F5	20.5
12/26/2007	593149	126-COLONIALTERMINALINC	10643204	101729GA	SL04	F5	21.34
12/26/2007	593150	126-COLONIALTERMINALINC	10643205	101729GA	SF03	F5	21.78
12/26/2007	593151	126-COLONIALTERMINALINC	10643206	101729GA	DM03	F5	18.97
12/26/2007	593157	126-COLONIALTERMINALINC	10643207	101729GA	DM01	F5	16.62
12/26/2007	593161	126-COLONIALTERMINALINC	10643208	101729GA	DM04	F5	20.4
12/26/2007	593163	126-COLONIALTERMINALINC	10643209	101729GA	SS1	F5	21.38
12/26/2007	593162	126-COLONIALTERMINALINC	10643210	101729GA	LC02	F5	24.22
12/26/2007	593168	126-COLONIALTERMINALINC	10643211	101729GA	JB6	F5	24.54
12/26/2007	593181	126-COLONIALTERMINALINC	10643212	101729GA	SF03	F5	23.13
12/26/2007	593188	126-COLONIALTERMINALINC	10643213	101729GA	DM03	F5	20.15
12/26/2007	593189	126-COLONIALTERMINALINC	10643214	101729GA	DM01	F5	16.14
12/26/2007	593190	126-COLONIALTERMINALINC	10643215	101729GA	DM04	F5	19.13
12/26/2007	593202	126-COLONIALTERMINALINC	10643216	101729GA	LC02	F5	21.61
12/26/2007	593078	126-COLONIALTERMINALINC	10643224	101729GA	LC03	F5	19.73
11/12/2010	---	126-COLONIALTERMINALINC	11111002	101729GA	---	Area D	27*
11/12/2010	---	126-COLONIALTERMINALINC	11111003	101729GA	---	Area D	27*

*Based on a conversion factor of 1.35 tons per cubic yard

Table 4-3
Results of Borrow Pit Soil Sample Analyses, mg/kg
Colonial Terminals - HSI No. 10098
Savannah, Georgia

Location	Borrow Pit	Borrow Pit B
Date	10/25/2007	11/6/2007
Analyte (mg/kg)		
Aluminum	6600	2700
Antimony	<1.1	<0.99
Arsenic	<1.1	<0.99
Barium	7.3	8.7
Beryllium	<0.53	<0.49
Cadmium	<0.53	<0.49
Calcium	<53	270
Chromium	2	3.5
Cobalt	<1.1	<0.99
Copper	<1.1	<0.99
Iron	1800	1300
Lead	4.2	1.9
Magnesium	63	120
Manganese	<1.1	12
Nickel	<1.1	<0.99
Potassium	<53	96
Selenium	<1.1	<0.99
Silver	<1.1	<0.99
Sodium	<53	<49
Thallium	<1.1	<0.99
Vanadium	2.8	5.6
Zinc	<2.1	<2.0
Mercury	<0.097	<0.11

Note: All VOC results using EPA Method 8260B were below detection limits

Table 6-1
Laboratory Analytical Results - Confirmation Soil Samples
Colonial Terminals
Savannah, GA
HSI Site 10098

Horizon	RRS As	RRS Pb
0-2'	38.1	930
2-5'	326	1,560
5-8'	326	1,560

Date	Sample ID	Area	Location	Depth Horizon	mg/kg		Comments
					Arsenic	Lead	
11/16/07	A1-Floor	A	Floor	6	100	82	Delineation complete
11/16/07	A2-Floor	A	Floor	8	85	41	Delineation complete
11/19/07	A3-Floor 5'	A	Floor	5	120	550	Delineation complete
11/19/07	A3-Wall South 5-8	A	South wall	5-8	1300	1000	Removed by excavation.
11/19/07	A4-Wall South 0-2	A	South wall	0-2	7	560	Delineation complete
11/20/07	A4-Floor 2'	A	Floor	2	69	1000	Delineation complete
11/20/07	A5-Floor 5'	A	Floor	5	280	670	Delineation complete
11/27/07	A5-W-S	A	South wall	0-2	25	430	Delineation complete
11/28/07	A1-W-N (0-2)	A	North wall	0-2	63	67	Sample rerun at lab on 11/28/07.
11/28/07	A1W-N (R)	A	North wall	0-2	4.7	31	Delineation complete
12/11/07	SL-BF-1	Easement	Misc	1	7.7	50	Delineation complete
12/11/07	SL-BF-1	Easement	Misc	4	1.7	9.7	Delineation complete
12/11/07	SL-BF-2	Easement	Misc	1	22	200	Delineation complete
12/11/07	SL-BF-2	Easement	Misc	4	3.6	14	Delineation complete
10/25/07	1066W	B	North wall	0-2	2.3	51	Delineation complete
10/25/07	1067W	B	North wall	0-2	130	1500	Exceeds RRS - replaced with 1067W-R 11/8/07
10/25/07	1081W	B	SE wall	0-2	23	180	Delineation complete
10/29/07	1079W	B	SW wall	0-2	9.3	82	Delineation complete
10/29/07	1086W	B	NW wall	0-2	74	370	Exceeds RRS - replaced with 1086W-R 11/29/07
10/30/07	1095W	B	North wall	0-2	15	140	Delineation complete
11/8/07	1067W-R	B	North wall	0-2	50	570	Exceeds RRS - removed by excavation
11/26/07	1058W-S	B	South wall	0-2	54	1500	Sample rerun at lab on 11/26/07.
11/29/07	1086W-R	B	NW wall	0-2	25	120	Delineation complete
11/6/07	1058W-S (rerun)		South wall	0-2	55	1000	Exceeds RRS - replaced with 1058W-R 12/12/07
12/12/07	1058W(R)	B	South wall	0-2	9	56	Delineation complete
11/27/07	1072-W	B	North wall	0-2	6.2	57	Delineation complete
12/4/07	B1-SUP-WN	B SUP	North wall	0-2	40	400	Removed by excavation.
12/4/07	B2-SUP-WS1	B SUP	South wall	0-2	11	220	Delineation complete
12/4/07	B2-SUP-WS2	B SUP	South wall	0-2	7.9	55	Delineation complete
12/5/07	B2-SUP-WS3	B SUP	South wall	0-2	18	170	Delineation complete
12/5/07	B2-SUP-WS4	B SUP	South wall	0-2	23	330	Delineation complete
12/5/07	B2-SUP-WS5	B SUP	South wall	0-2	50	370	Exceeds RRS - replaced with B2-SUP-WS5-R 12/12/07
12/5/07	B2-SUP-WW	B SUP	West wall	0-2	31	310	Delineation complete
12/5/07	B3-SUP-WS	B SUP	South wall	0-2	5.9	200	Delineation complete

Table 6-1
Laboratory Analytical Results - Confirmation Soil Samples
Colonial Terminals
Savannah, GA
HSI Site 10098

Horizon	RRS As	RRS Pb
0-2'	38.1	930
2-5'	326	1,560
5-8'	326	1,560

Date	Sample ID	Area	Location	Depth Horizon	mg/kg		Comments
					Arsenic	Lead	
12/5/07	B3-SUP-WW	B SUP	West wall	0-2	8.4	100	Delineation complete
12/11/07	1065W	B	East wall	0-2	19	160	Delineation complete
12/11/07	1054W	B	East wall	0-2	34	350	Delineation complete
12/12/07	B2-SUP-WS5-R	B SUP	South wall	0-2	17	130	Delineation complete
11/17/07	C-Floor	C	Floor	5.5	55	250	Delineation complete
11/17/07	C-W-E	C	East wall	2-5.0	7.1	98	Delineation complete
11/17/07	C-W-N	C	North wall	2-5.0	42	420	Delineation complete
11/17/07	C-W-S	C	South wall	2-5.0	120	1300	Delineation complete
11/17/07	C-W-W	C	West wall	2-5.0	380	47	Sample rerun at lab on 12/11/07.
12/11/07	C-W-W rerun	C	West wall	2-5.0	380	47	Exceeds RRS - replaced with C-W-W (R) 12/12/07
12/12/07	C-W-W (R)	C	West wall	2-5.0	20	13	Delineation complete
11/2/07	D-1-Floor	D	Floor	2.5	94	670	Delineation complete
11/3/07	D-1-Floor-2 (2-5)	D	Floor	2.5	100	810	Delineation complete
11/3/07	D-1-Floor-3 (2)	D	Floor	2	8.1	14	Delineation complete
11/17/07	D-Berm-W-S	D	South wall	0-2	31	300	Delineation complete
11/3/07	D-Berm-2 (0-2)	D	South wall	0-2	25	330	Delineation complete
11/4/07	D-2-Floor (2)	D	Floor	2	92	95	Delineation complete
11/4/07	D-2-SW-E(0-2)	D	East wall	0-2	230	110	
11/17/07	D2R-W-E	D	East wall	0-2	18	160	Delineation complete
11/4/07	D-2-SW-S(0-2)	D	South wall	0-2	13	140	Delineation complete
11/4/07	D-3-Floor (2)	D	Floor	2	56	280	Delineation complete
11/4/07	D-3-SW-N (0-2.5)	D	North wall	0-2	22	180	Delineation complete
11/4/07	D-3-SW-S (0-2)	D	South wall	0-2	16	170	Delineation complete
11/4/07	D-3-SW-W (0-2)	D	West wall	0-2	6	92	Delineation complete
6/16/10	D-HA-1	D	---	0-2	92	110	Removed by excavation.
6/16/10	D-HA-2	D	---	0-2	17.4	107	Below RRS
6/16/10	D-HA-3	D	---	0-2	6.7	52.1	Below RRS
11/11/10	Area D SW-North 2' (11/11/2010)	D	North wall	0-2	3.42	38.5	Delineation complete
11/9/10	Area D SW-South 2'	D	South wall	0-2	<2.12	3.2	Delineation complete
11/9/10	Area D SW-East 2'	D	East wall	0-2	2.14	5.64	Delineation complete
11/9/10	Area D SW-North 2' (11/9/2010)	D	North wall	0-2	40.7	19.1	Removed by excavation.
11/9/10	Area D SW-West 2'	D	West wall	0-2	<9.43	<4.71	Delineation complete
11/9/10	Area D Bottom-NE 3'	D	Floor	2-5'	31.4	72.9	Delineation complete
11/9/10	Area D Bottom-NW 3'	D	Floor	2-5'	65.6	60	Delineation complete
11/9/10	Area D Bottom-Center 3'	D	Floor	2-5'	75.2	69	Delineation complete
11/9/10	Area D Bottom-SE 3 FT	D	Floor	2-5'	32	70.4	Delineation complete
11/9/10	Area D Bottom-SW 3'	D	Floor	2-5'	67.9	55.6	Delineation complete
11/17/07	E-Floor	E	Floor	5.5	18	260	Delineation complete
11/17/07	E-W-E	E	East wall	2-5.0	4.3	10	Delineation complete

Table 6-1
Laboratory Analytical Results - Confirmation Soil Samples
Colonial Terminals
Savannah, GA
HSI Site 10098

Horizon	RRS As	RRS Pb
0-2'	38.1	930
2-5'	326	1,560
5-8'	326	1,560

Date	Sample ID	Area	Location	Depth Horizon	mg/kg		Comments
					Arsenic	Lead	
11/17/07	E-W-N	E	North wall	2-5.0	65	1400	Delineation complete
11/17/07	E-W-S	E	South wall	2-5.0	18	280	Delineation complete
11/17/07	E-W-W	E	West wall	2-5.0	14	210	Delineation complete
11/6/07	1020SW	F	South wall	0-5	96	520	Delineation complete
11/6/07	1021SW	F	West wall	0-5	100	1500	Delineation complete
11/6/07	1022SW	F	North wall	0-5	54	1100	Removed by excavation.
11/6/07	F-Floor	F	Floor	5	31	690	Delineation complete
11/9/07	F SUP NW(0-2)	F	Floor	0-2	24	410	Delineation complete
11/9/07	F SUP SW(0-2)	F	Floor	0-2	13	150	Delineation complete
12/6/07	F1-Floor	F	Floor	2	31	670	Delineation complete
12/6/07	F1-W-N	F	North wall	0-2	9.5	270	Removed by excavation.
12/6/07	F1-W-E	F	East wall	0-2	3.3	75	Removed by excavation.
12/6/07	F3-Floor 1	F	Floor	5	62	21	Delineation complete
12/6/07	F3-W-N(0-2)	F	North wall	0-2	9.6	220	Removed by excavation.
12/6/07	F3-W-N(2-5)	F	North wall	2-5.0	39	1700	Removed by excavation.
12/6/07	F2-Floor	F	Floor	2	38	560	Delineation complete
12/6/07	F3-Floor 2	F	Floor	6	7.3	17	Delineation complete
12/6/07	F4-W-E(5-8)	F	East wall	5-8.0	21	30	Delineation complete
12/6/07	F4-Floor	F	Floor	8	5.6	11	Delineation complete
12/6/07	F3-W-E(2-5)	F	East wall	2-5.0	73	1000	Delineation complete
12/7/07	F4 W-N	F	North wall	2-5.0	91	1100	Delineation complete
12/7/07	F4 W-N	F	North wall	5-8.0	140	2600	Removed by excavation.
12/13/07	1022W (R)	F	North wall	2-5.0	50	630	Delineation complete
12/14/07	F5-Floor (5)	F	Floor	5	93	860	Removed by excavation.
12/14/07	F5-Floor (8)	F	Floor	8	48	3200	Exceeds RRS - replaced with F5-Floor 12/17/07. Ground water encountered.
12/17/07	F5-Floor	F	Floor	8	9.7	14	Delineation complete
12/14/07	F5-Floor-2(5)	F	Floor	5	6.2	82	Delineation complete
12/17/07	F5-Floor 3 (5')	F	Floor	5	3.9	14	Delineation complete
12/19/07	F5-W-S (0-2)	F	South wall	0-2	6.5	74	Delineation complete
12/19/07	F5-W-S(2-5)	F	South wall	2-5	74	1000	Delineation complete
12/19/07	F5-W-S(5-8)	F	South wall	5-8	8.3	90	Delineation complete
12/19/07	F6-W-W(0-2)	F	West wall	0-2	30	240	Delineation complete
12/19/07	F6 Floor 1(3)	F	Floor	3	46	990	Delineation complete
12/19/07	F6 Floor 2(2)	F	Floor	2	33	370	Delineation complete
10/29/07	G2NE	G	NE wall	0-3	96	2100	Sample located on property boundary
10/30/07	G-Floor	G	Floor	3ft	96	1000	Delineation complete
10/31/07	G-N-Floor	G	Floor	3ft	100	1400	Delineation complete
11/1/07	G-N2-Floor	G	Floor	3	43	1300	Delineation complete

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Colonial Terminals
Savannah, GA
HSI Site 10098

Horizon	RRS As	RRS Pb
0-2'	38.1	930
2-5'	326	1,560
5-8'	326	1,560

Date	Sample ID	Area	Location	Depth Horizon	mg/kg		Comments
					Arsenic	Lead	
10/29/07	G1-NW	G	Floor	0-2	1100	17000	Removed by excavation.
11/6/07	1010SW	G	Floor	0-2	160	1400	Removed by excavation.
11/6/07	G-N-SW		Floor	0-2	99	1400	Removed by excavation.
11/6/07	G4 - Floor	G	Floor	2	27	64	Delineation complete
11/6/07	G-NW-SW	G	NW wall	0-2	38	640	Delineation complete
11/15/07	G4-W-S	G	South wall	0-2	24	370	Delineation complete
11/15/07	G5-Floor	G	Floor	5	56	110	Delineation complete
11/15/07	G5-W-E	G	East wall	2-5.0	180	1900	Exceeds RRS - replaced with G5-W-E(R) 11-28-07
11/15/07	G5-W-N	G	North wall	2-5.0	43	25	Delineation complete
11/15/07	G5-W-S	G	South wall	2-5.0	34	76	Delineation complete
11/28/07	G5-W-E(R)	G	East wall	2-5.0	18	77	Delineation complete
12/11/07	G-W-N	G	North wall	0-2	29	540	Delineation complete
12/11/07	SL-BF-3	Easement	Misc	1	2.5	25	Delineation complete
12/11/07	SL-BF-3	Easement	Misc	4	1.7	5.1	Delineation complete
11/12/07	I1-Floor	I	Floor	2	5.7	45	Delineation complete
11/12/07	I1-SW	I	West wall	0-2	15	150	Delineation complete
11/12/07	I2-Floor	I	Floor	2	25	220	Delineation complete
11/12/07	I2-W	I	West wall	0-2	70	1500	Removed by excavation.
11/13/07	I3-Floor	I	Floor	2	24	210	Delineation complete
11/13/07	I3-W-N	I	North wall	0-2	50	250	Removed by excavation.
11/13/07	I3-W-S	I	South wall	0-2	17	230	Removed by excavation.
11/13/07	I3-W-W	I	West wall	0-2	23	220	Delineation complete
11/13/07	I4-Floor	I	Floor	5	200	700	Delineation complete
11/13/07	I4-W-N	I	North wall	2-5.0	33	350	Delineation complete
11/13/07	I4-W-W	I	West wall	2-5.0	22	43	Delineation complete
11/13/07	I5-Floor	I	Floor	3	20	77	Delineation complete
11/13/07	I5-W-N	I	North wall	0-2	57	490	Exceeds RRS - replaced with I5-W-N(R) 11/28/07
11/13/07	I6-Floor	I	Floor	2	14	180	Delineation complete
11/13/07	I6-W-W	I	West wall	0-2	14	99	Delineation complete
11/14/07	I7-Floor	I	Floor	2	32	210	Delineation complete
11/14/07	I7-W-S	I	South wall	0-2	21	150	Delineation complete
11/14/07	I7-W-W	I	West wall	0-2	34	290	Delineation complete
11/27/07	1042-W	I	West wall	0-2	22	230	Delineation complete
11/27/07	I4-W-S	I	South wall	0-2	4.8	57	Delineation complete
11/28/07	I5-W-N(R)	I	North wall	0-2	20	120	Delineation complete
11/28/07	I8-Floor	I	Floor	2	37	350	Delineation complete
11/28/07	I8-W-S	I	South wall	0-2	20	180	Delineation complete
11/28/07	I8-W-W	I	West wall	0-2	11	110	Delineation complete
11/28/07	I9-Floor	I	Floor	2	20	210	Delineation complete

Table 6-1
Laboratory Analytical Results - Confirmation Soil Samples
Colonial Terminals
Savannah, GA
HSI Site 10098

Horizon	RRS As	RRS Pb
0-2'	38.1	930
2-5'	326	1,560
5-8'	326	1,560

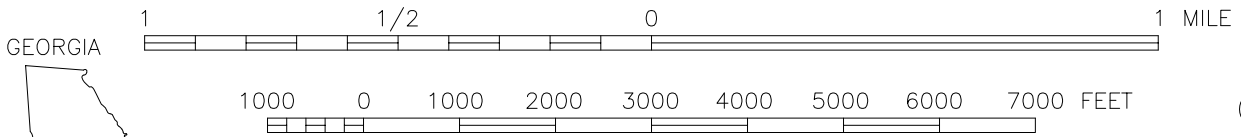
Date	Sample ID	Area	Location	Depth Horizon	mg/kg		Comments
					Arsenic	Lead	
11/28/07	I9-W-N	I	North wall	0-2	17	180	Delineation complete
12/17/07	I16	I	South wall	0-2	37	330	Delineation complete

Figures



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE: SAVANNAH, GA-1978

SCALE 1:24000



QUADRANGLE LOCATION

CONTOUR INTERVAL 1.5 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929



SITE LOCATION MAP
COLONIAL TERMINALS, INC. - HSI #10098
SAVANNAH, GEORGIA

FIGURE
2-1



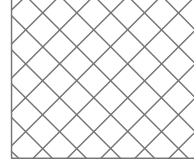
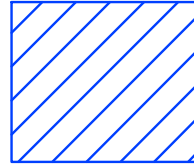
ENVIRONMENTAL
RESOURCES
MANAGEMENT

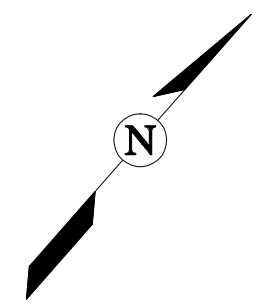
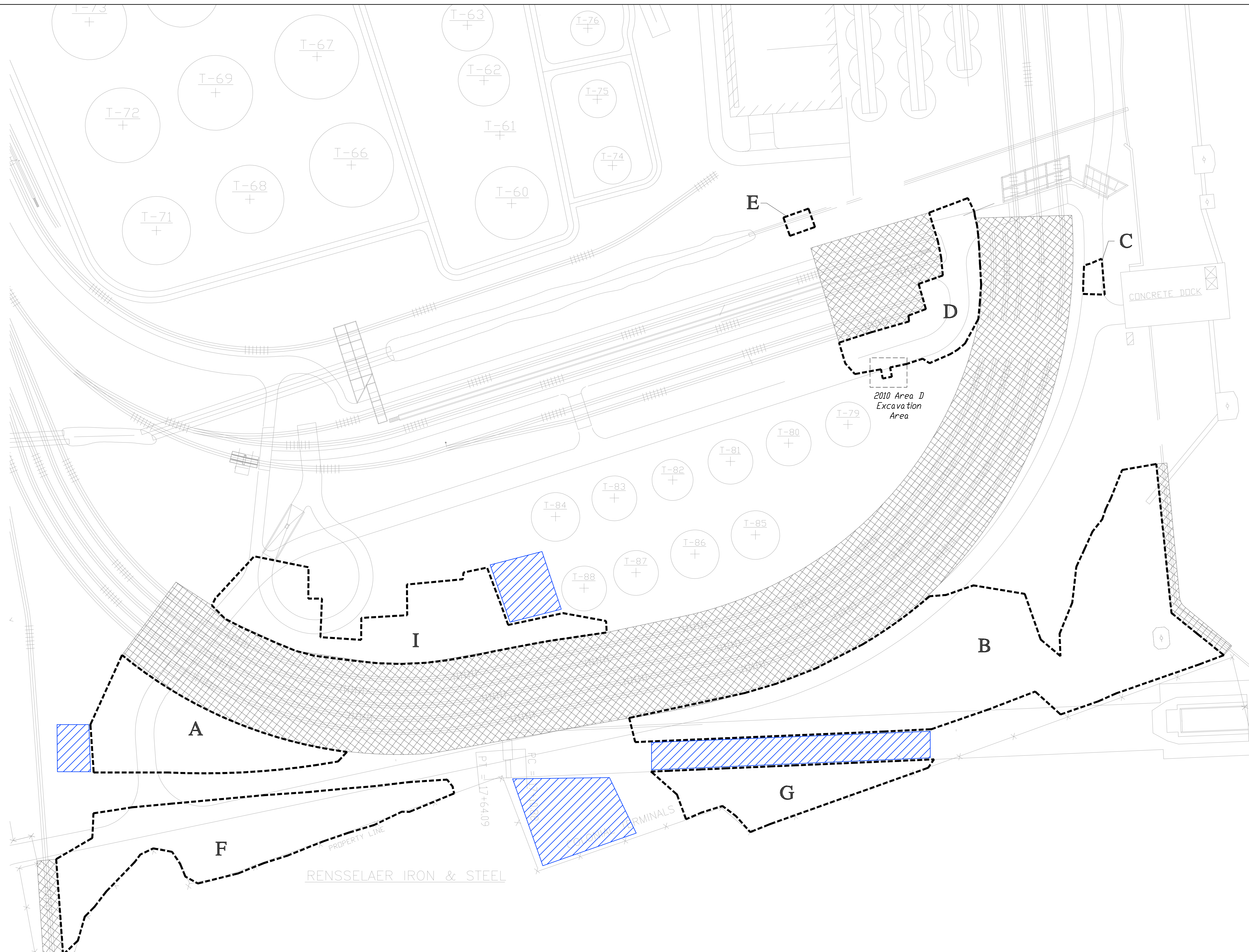
TAX PARCEL LOCATION MAP
HSI #10098
COLONIAL TERMINALS
SAVANNAH, GEORGIA

Figure

2-2

LEGEND

- LIMITS OF EXCAVATION
-  TYPE 5 AREA
-  SOIL STOCKPILE STAGING AREA



SCALE IN FEET
50 25 0 50

PRELIMINARY

SURVEY DATUM: GEORGIA EAST STATE PLANE

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

COLONIAL TERMINALS, INC. - HSI SITE #10098

GENERAL DEVELOPMENT PLAN

DRAWN BY
M. HYRE
DESIGN ENGINEER
C. BUZZELLI

NORTH LATHROP AVE.
SAVANNAH, CHATHAM COUNTY, GA

PROJECT ENGINEER
H. SARTAIN
PROJECT MANAGER
J. MORRISON



NOT FOR CONSTRUCTION

SOIL EXCAVATION MAP

SCALE
1"=50'
PROJECT NO.
0121033

DATE
February 9, 2011
AutoCAD 2007
121033_Soil_CSR.dwg


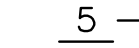





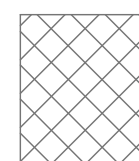
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4-1

REV. NO.
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SHEET **3** OF **5**

121033_Soil_CSR.dwg 2/11/08 MPH_REV 2/9/11

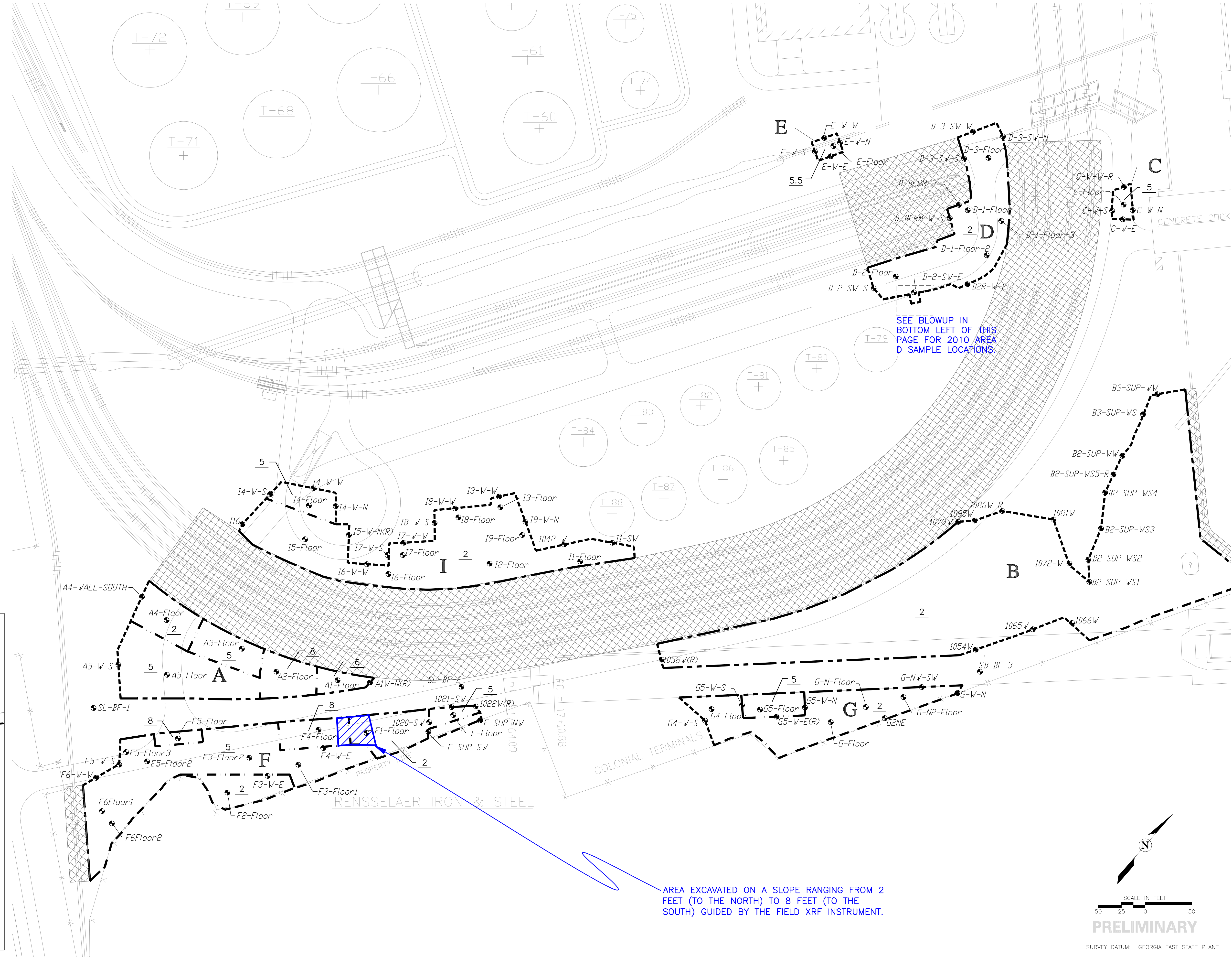
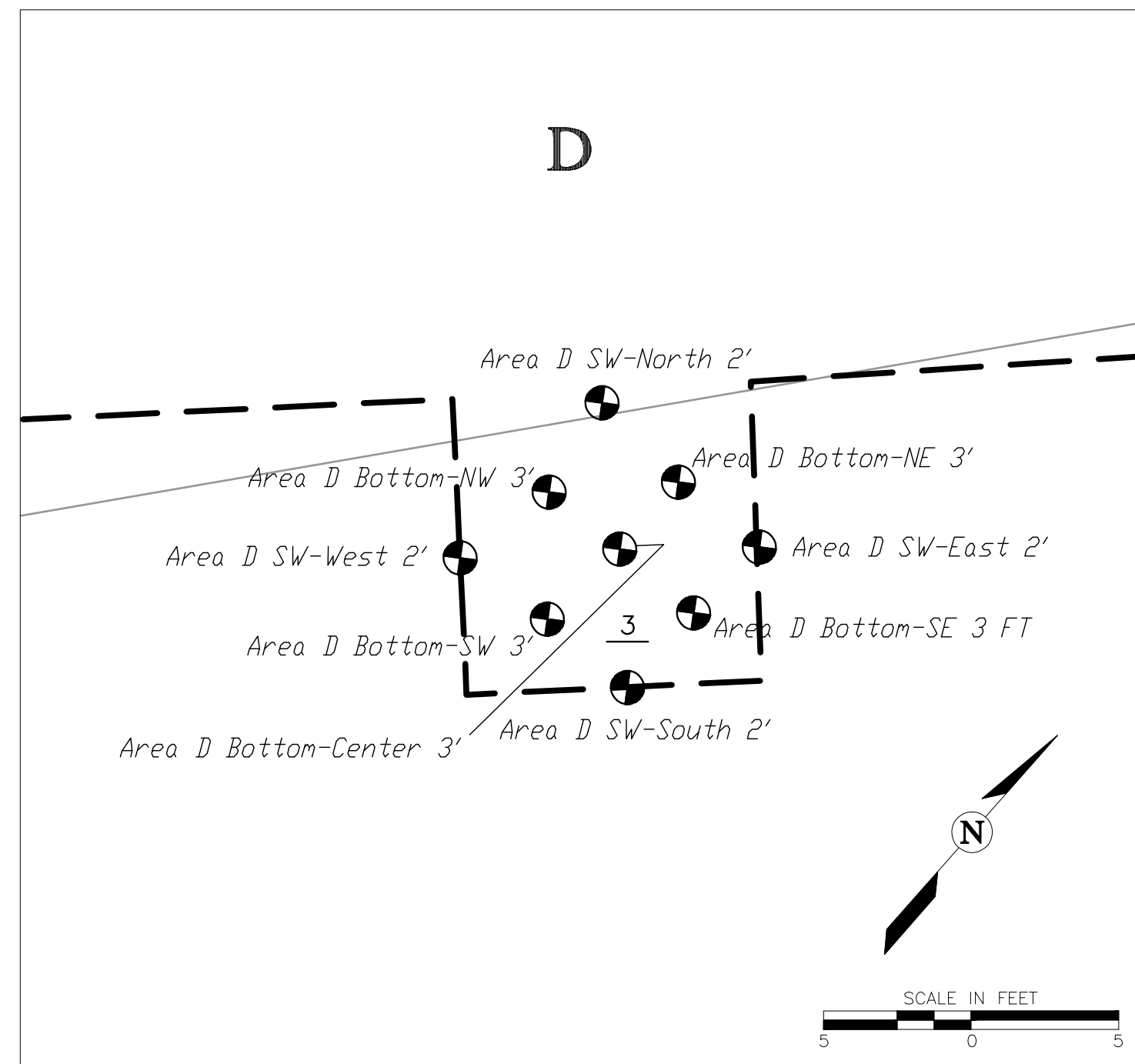
LEGEND

-  G-2-NE CONFIRMATORY SAMPLE LOCATION
-  5- EXCAVATION DEPTH (FEET)
-  LIMITS OF EXCAVATION
-  CLEAN FILL FROM FORMER SEWER LINE PROJECT - NO SAMPLE COLLECTED
-  INTERMEDIATE TRANSITION ZONE
-  EXCAVATION WALL ABUTS TYPE 5 AREA - NO SAMPLE COLLECTED
-  PROPERTY LINE - NO SAMPLE COLLECTED
-  TYPE 5 AREA

NOTES

SAMPLES YIELDING ANALYTICAL RESULTS >RRS ARE NOT PRESENT. THESE LOCATIONS WERE EXCAVATED. FINAL CONFIRMATION SAMPLE LOCATIONS PRESENTED ONLY.

2010 AREA D SAMPLE LOCATIONS



SEE BLOWUP IN BOTTOM LEFT OF THIS PAGE FOR 2010 AREA D SAMPLE LOCATIONS.

AREA EXCAVATED ON A SLOPE RANGING FROM 2 FEET (TO THE NORTH) TO 8 FEET (TO THE SOUTH) GUIDED BY THE FIELD XRF INSTRUMENT.

PRELIMINARY
SURVEY DATUM: GEORGIA EAST STATE PLANE

121033_Soil_CSR.DWG 2/11/08 MDH REV 2/9/11

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

COLONIAL TERMINALS, INC. - HSI SITE #10098

GENERAL DEVELOPMENT PLAN
 DRAWN BY: M. HYRE
 DESIGN ENGINEER: C. BUZZELLI
 PROJECT ENGINEER: H. SARTAIN
 PROJECT MANAGER: J. MORRISON
 NORTH LATHROP AVE.
 SAVANNAH, CHATHAM COUNTY, GA.





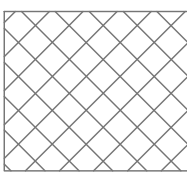
NOT FOR CONSTRUCTION

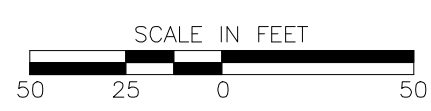
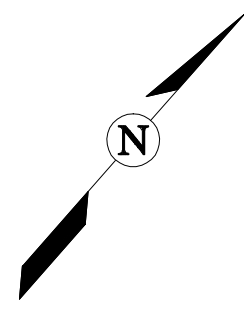
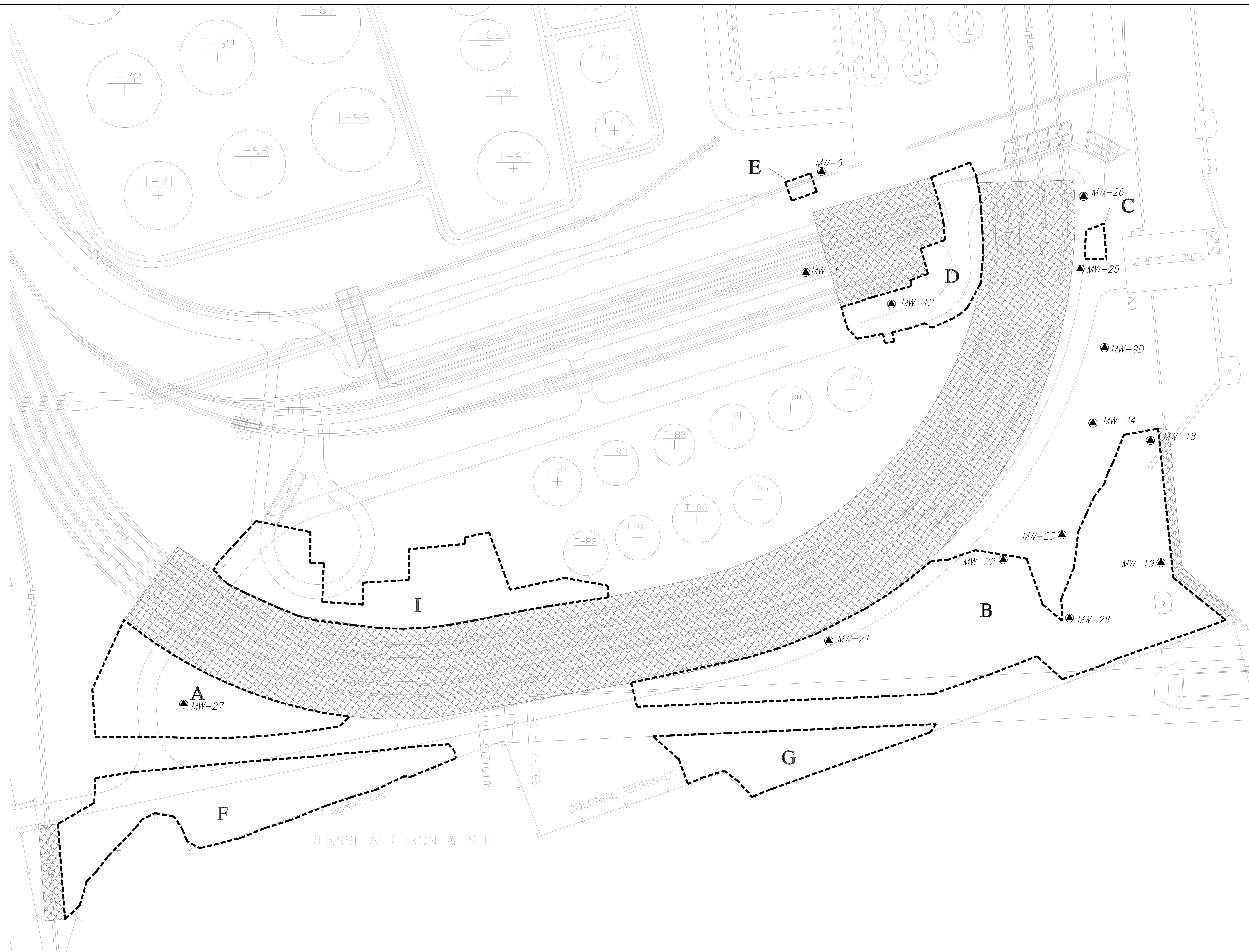
CONFIRMATION SAMPLE LOCATION MAP

SCALE: 1"=50'
 DATE: February 9, 2011
 PROJECT NO.: 0121033
 AutoCAD 2007
 121033_Soil_CSR.dwg

DRAWING NO. **6-1**
 REV. NO. **0**
 SHEET **4** OF **5**

LEGEND

-  MW-3 PERFORMANCE STANDARD MONITORING WELL LOCATION
-  LIMITS OF EXCAVATION
-  TYPE 5 AREA



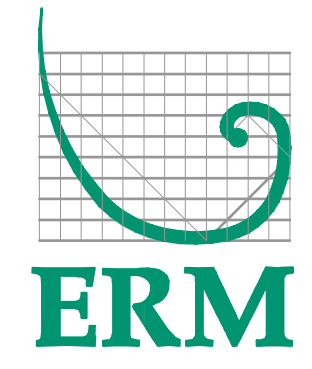
PRELIMINARY

SURVEY DATUM: GEORGIA EAST STATE PLANE

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

COLONIAL TERMINALS, INC. - HSI SITE #10098

GENERAL DEVELOPMENT PLAN
 DRAWN BY M. HYRE
 DESIGN ENGINEER C. BUZZELLI
 PROJECT ENGINEER H. SARTAIN
 PROJECT MANAGER J. MORRISON
 NORTH LATHROP AVE.
 SAVANNAH, CHATHAM COUNTY, GA



NOT FOR CONSTRUCTION

PERFORMANCE STANDARD VERIFICATION MONITORING WELL LOCATIONS

SCALE: 1"=50'
 DATE: February 9, 2011
 PROJECT NO.: 0121033
 AutoCAD 2007
 121033_Soil_CSR.dwg

DRAWING NO.	6-2
REV. NO.	0
SHEET	5 OF 5

121033_Soil_CSR.dwg 2/11/08 MPH REV 2/9/11

Appendix A

Survey Data

Appendix A
Survey Data
Colonial Terminals-HSI Site 10098
Savannah, GA

<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
742	764611.5	981042.2	8.1	TD	10/18/2007
743	764605.8	981045.7	5.84	CLD	10/18/2007
744	764599.5	981050.8	9.94	TD	10/18/2007
745	764653.4	981090.0	10.66	CL RR TRACK	10/18/2007
746	764712.6	981100.8	7.04	TD	10/18/2007
747	764703.7	981106.3	5.29	CLD	10/18/2007
748	764691.3	981121.1	8.02	TD	10/18/2007
749	764742.2	981159.8	8.42	TD	10/18/2007
750	764731.5	981167.4	4.79	CLD	10/18/2007
751	764720.6	981185.4	8.74	TD	10/18/2007
752	764998.0	981294.1	13.14	TD	10/18/2007
753	764981.1	981324.4	12.32	TD	10/18/2007
754	764567.9	981308.8	9.38	TD	10/18/2007
755	764557.1	981308.0	6.87	CLD	10/18/2007
756	764548.8	981309.4	9.08	TD	10/18/2007
757	764606.6	981299.2	11.81	CL RR TRACK	10/18/2007
758	764645.7	981292.8	9.91	TD	10/18/2007
759	764656.2	981291.0	6.29	CLD	10/18/2007
760	764663.0	981292.3	9.09	TD	10/18/2007
761	764700.5	981486.7	11.07	TD	10/18/2007
762	764710.6	981482.7	8.77	CLD	10/18/2007
763	764716.9	981476.5	10.76	TD	10/18/2007
764	764621.8	981510.0	10.35	TD	10/18/2007
765	764610.9	981515.4	6.37	CLD	10/18/2007
766	764601.4	981519.2	9.72	TD	10/18/2007
767	764852.3	981681.3	14.34	CL RR TRACK	10/18/2007
768	765364.0	981766.8	14.19	SE	10/18/2007
769	765325.4	981676.7	13.55	SE	10/18/2007
770	765290.6	981657.9	13.21	SE	10/18/2007
771	765499.2	981747.5	14.53	CL RR TRACK	10/18/2007
772	765500.9	981654.9	13.99	SE	10/18/2007
773	765343.2	981498.9	11.85	TD	10/18/2007
774	765330.9	981518.4	11.93	TD	10/18/2007
775	764832.5	980659.3	9.63	IRF BENT	10/18/2007
776	764489.9	981108.6	10.78	IRF	10/18/2007
1000	981404.5	764343.8		WdStk	10/18/2007
1001	981435.1	764384.6		WdStk	10/18/2007
1002	981472.5	764417.8		WdStk	10/18/2007
1003	981525.4	764412.8		WdStk	10/18/2007
1004	981561.6	764468.0		WdStk	10/18/2007
1005	981587.2	764514.5		WdStk	10/18/2007
1006	981612.9	764561.1		WdStk	10/18/2007
1008	981664.1	764654.2		WdStk	10/18/2007
1010	981896.2	764853.3		WdStk	10/18/2007
1011	981936.6	764854.0		WdStk	10/18/2007
1015	981438.9	764456.0		WdStk	10/18/2007
1016	981473.4	764492.5		WdStk	10/18/2007
1017	981507.8	764529.2		WdStk	10/18/2007
1018	981542.5	764565.4		WdStk	10/18/2007
1019	981576.5	764602.4		WdStk	10/18/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
1021	981645.3	764675.7		WdStk	10/18/2007
1024	981859.5	764886.4		WdStk	10/18/2007
1027	981412.6	764480.0		WdStk	10/18/2007
1028	981449.7	764519.5		WdStk	10/18/2007
1030	981518.4	764592.8		WdStk	10/18/2007
1032	981502.4	764611.0		WdStk	10/18/2007
1033	981454.3	764590.0		WdStk	10/18/2007
1034	981401.8	764573.9		WdStk	10/18/2007
1035	981310.5	764561.1		WdStk	10/18/2007
1036	981399.3	764652.8		WdStk	10/18/2007
1037	981436.7	764685.6		WdStk	10/18/2007
1038	981474.3	764718.7		WdStk	10/18/2007
1039	981511.7	764751.5		WdStk	10/18/2007
1040	981549.2	764784.5		WdStk	10/18/2007
1041	981586.9	764818.0		WdStk	10/18/2007
1042	981624.4	764851.0		WdStk	10/18/2007
1043	981662.2	764883.6		WdStk	10/18/2007
1048	981799.6	764878.8		WdStk	10/18/2007
1050	981871.8	764948.1		WdStk	10/18/2007
1054	982016.2	765086.7		WdStk	10/18/2007
1055	982052.3	765121.3		WdStk	10/18/2007
1057	982122.6	765192.9		WdStk	10/18/2007
1058	981779.5	764901.6		WdStk	10/18/2007
1059	981809.9	764942.7		WdStk	10/18/2007
1060	981839.1	764985.2		WdStk	10/18/2007
1064	981995.3	765110.5		WdStk	10/18/2007
1065	982032.8	765143.5		WdStk	10/18/2007
1066	982070.4	765176.5		WdStk	10/18/2007
1067	982107.9	765209.5		WdStk	10/18/2007
1069	982176.3	765283.2		WdStk	10/18/2007
1070	982150.0	765313.1		WdStk	10/18/2007
1071	982112.4	765280.1		WdStk	10/18/2007
1072	982074.9	765247.1		WdStk	10/18/2007
1077	981887.1	765081.9		WdStk	10/18/2007
1078	981900.1	765143.0		WdStk	10/18/2007
1079	981929.2	765185.6		WdStk	10/18/2007
1080	981966.8	765218.6		WdStk	10/18/2007
1081	982004.3	765251.6		WdStk	10/18/2007
1082	982041.9	765284.6		WdStk	10/18/2007
1083	982079.4	765317.7		WdStk	10/18/2007
1084	982046.4	765355.2		WdStk	10/18/2007
1085	982028.2	765329.1		WdStk	10/18/2007
1091	982013.3	765392.7		WdStk	10/18/2007
1092	981980.3	765430.3		WdStk	10/18/2007
1096	981336.9	764531.2		WdStk	10/18/2007
1097	981689.0	765307.2		WdStk	10/18/2007
1103	981739.7	765382.4		WdStk	10/18/2007
1104	981713.4	765395.2		WdStk	10/18/2007
1105	981703.5	765433.3		WdStk	10/18/2007
1106	981660.3	765470.7		WdStk	10/18/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
1107	981693.4	765499.8		WdStk	10/18/2007
1108	981730.8	765457.3		WdStk	10/18/2007
1110	981772.4	765410.0		WdStk	10/18/2007
1123	981826.6	765560.2		WdStk	10/18/2007
8000	765193.2	982113.2	12.07	SE	10/18/2007
8001	765210.0	982122.6	11.83	SE	10/18/2007
8002	765303.1	982024.4	14.9	SE	10/18/2007
8003	765272.0	982051.0	14.82	SE	10/18/2007
8004	765242.6	982076.1	13.86	SE	10/18/2007
8005	765214.5	982100.4	12.29	SE	10/18/2007
8006	765198.6	982117.5	12.08	SE	10/18/2007
8007	765227.5	982131.0	12.11	SE	10/18/2007
8008	765248.8	982106.6	12.24	SE	10/18/2007
8009	765270.2	982083.2	12.62	SE	10/18/2007
8010	765292.3	982059.8	13.82	SE	10/18/2007
8011	765314.6	982036.5	13.93	SE	10/18/2007
8012	765272.6	981985.7	15.56	SE	10/18/2007
8013	765245.0	982006.3	15.63	SE	10/18/2007
8014	765220.2	982028.1	14.75	SE	10/18/2007
8015	765195.4	982050.4	13	SE	10/18/2007
8016	765172.3	982071.4	12.5	SE	10/18/2007
8017	765152.1	982091.6	12.29	SE	10/18/2007
8018	765106.3	982066.1	11.98	SE	10/18/2007
8019	765130.8	982045.6	12.23	SE	10/18/2007
8020	765154.4	982023.5	12.73	SE	10/18/2007
8021	765177.9	982004.8	14.14	SE	10/18/2007
8022	765204.1	981982.7	14.89	SE	10/18/2007
8023	765224.2	981961.9	15.31	SE	10/18/2007
8024	765239.3	981941.5	14.08	SE	10/18/2007
8025	765186.4	981916.8	11.33	SE	10/18/2007
8026	765183.6	981932.7	13.68	SE	10/18/2007
8027	765169.5	981959.9	14.89	SE	10/18/2007
8028	765152.6	981986.0	13.93	SE	10/18/2007
8029	765135.3	982012.1	12.55	SE	10/18/2007
8030	765118.0	982036.0	12.11	SE	10/18/2007
8031	765098.7	982063.3	12.08	SE	10/18/2007
8032	765062.6	982043.3	11.86	SE	10/18/2007
8033	765088.6	982017.9	12.2	SE	10/18/2007
8034	765112.2	981996.3	12.53	SE	10/18/2007
8035	765157.1	981957.1	14.8	SE	10/18/2007
8036	765190.8	981923.6	12.98	SE	10/18/2007
8037	765149.1	981893.0	11.41	SE	10/18/2007
8038	765126.7	981921.0	13.26	SE	10/18/2007
8039	765109.1	981944.9	14.22	SE	10/18/2007
8040	765092.5	981970.0	13.19	SE	10/18/2007
8041	765068.9	982004.5	12.09	SE	10/18/2007
8042	765045.3	982034.4	12.01	SE	10/18/2007
8043	765009.6	982014.0	12.15	SE	10/18/2007
8044	765025.0	981985.2	12.35	SE	10/18/2007
8045	765042.3	981954.3	12.59	SE	10/18/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8046	765058.0	981922.4	14.27	SE	10/18/2007
8047	765066.6	981896.6	12.52	SE	10/18/2007
8048	765076.8	981869.5	11.25	SE	10/18/2007
8049	765041.8	981854.3	11.39	SE	10/18/2007
8050	765028.5	981881.6	12.39	SE	10/18/2007
8051	765013.2	981908.9	13.05	SE	10/18/2007
8052	764993.4	981937.9	11.5	SE	10/18/2007
8053	764979.1	981957.6	11.97	SE	10/18/2007
8054	764958.8	981987.6	11.9	SE	10/18/2007
8055	764917.0	981965.4	11.52	SE	10/18/2007
8056	764935.7	981938.0	12	SE	10/18/2007
8057	764961.1	981913.8	11.2	SE	10/18/2007
8058	764983.8	981888.8	12.73	SE	10/18/2007
8059	765000.3	981864.7	11.96	SE	10/18/2007
8060	765014.0	981840.7	11.54	SE	10/18/2007
8061	765013.1	981840.1	11.64	SE	10/18/2007
8062	764998.7	981863.5	11.95	SE	10/18/2007
8063	764983.0	981889.3	12.75	SE	10/18/2007
8064	764966.9	981915.1	11.65	SE	10/18/2007
8065	764949.1	981938.3	11.9	SE	10/18/2007
8066	764923.8	981968.8	11.43	SE	10/18/2007
8067	764891.4	981950.7	10.99	SE	10/18/2007
8068	764913.5	981923.3	11.92	SE	10/18/2007
8069	764927.8	981910.6	11.36	SE	10/18/2007
8070	764944.6	981894.2	11.09	SE	10/18/2007
8071	764968.7	981872.4	13.02	SE	10/18/2007
8072	764981.2	981853.0	11.81	SE	10/18/2007
8073	764992.7	981829.8	11.44	SE	10/18/2007
8074	764951.3	981802.8	10.9	SE	10/18/2007
8075	764932.2	981821.5	11.25	SE	10/18/2007
8076	764908.9	981842.8	10.71	SE	10/18/2007
8077	764886.1	981858.5	10.7	SE	10/18/2007
8078	764866.9	981874.1	11.15	SE	10/18/2007
8079	764847.0	981888.1	10.07	SE	10/18/2007
8080	764812.7	981860.8	9.83	SE	10/18/2007
8081	764836.7	981838.0	10.96	SE	10/18/2007
8082	764856.0	981822.3	10.27	SE	10/18/2007
8083	764878.2	981801.0	10.46	SE	10/18/2007
8084	764891.9	981789.8	10.6	SE	10/18/2007
8085	764910.1	981769.3	11.51	SE	10/18/2007
8086	764892.3	981756.2	11.53	SE	10/18/2007
8087	764867.3	981776.0	10.26	SE	10/18/2007
8088	764838.7	981801.3	10.08	SE	10/18/2007
A-SB-1	981307.1	764545.4		WdStk	10/18/2007
A-SB-3	981471.5	764570.4		WdStk	10/18/2007
A-SB-5	981534.9	764626.8		WdStk	10/18/2007
GSB-10	981981.4	764936.2		WdStk	10/18/2007
GSB-9	981949.4	764972.2		WdStk	10/18/2007
ISB-10	764652.8	764654.3		WdStk	10/18/2007
SB-20	981548.1	765395.0		WdStk	10/18/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
SB-35	981357.6	764507.8		WdStk	10/18/2007
SB-37	981946.2	765211.0		WdStk	10/18/2007
SB-38	981985.7	765263.8		WdStk	10/18/2007
TW-10A	981683.6	765321.8		WdStk	10/18/2007
742	764611.5	981042.2	8.1	TD	10/19/2007
743	764605.8	981045.7	5.84	CLD	10/19/2007
744	764599.5	981050.8	9.94	TD	10/19/2007
745	764653.4	981090.0	10.66	CL RR TRACK	10/19/2007
746	764712.6	981100.8	7.04	TD	10/19/2007
747	764703.7	981106.3	5.29	CLD	10/19/2007
748	764691.3	981121.1	8.02	TD	10/19/2007
749	764742.2	981159.8	8.42	TD	10/19/2007
750	764731.5	981167.4	4.79	CLD	10/19/2007
751	764720.6	981185.4	8.74	TD	10/19/2007
752	764998.0	981294.1	13.14	TD	10/19/2007
753	764981.1	981324.4	12.32	TD	10/19/2007
754	764567.9	981308.8	9.38	TD	10/19/2007
755	764557.1	981308.0	6.87	CLD	10/19/2007
756	764548.8	981309.4	9.08	TD	10/19/2007
757	764606.6	981299.2	11.81	CL RR TRACK	10/19/2007
758	764645.7	981292.8	9.91	TD	10/19/2007
759	764656.2	981291.0	6.29	CLD	10/19/2007
760	764663.0	981292.3	9.09	TD	10/19/2007
761	764700.5	981486.7	11.07	TD	10/19/2007
762	764710.6	981482.7	8.77	CLD	10/19/2007
763	764716.9	981476.5	10.76	TD	10/19/2007
764	764621.8	981510.0	10.35	TD	10/19/2007
765	764610.9	981515.4	6.37	CLD	10/19/2007
766	764601.4	981519.2	9.72	TD	10/19/2007
767	764852.3	981681.3	14.34	CL RR TRACK	10/19/2007
768	765364.0	981766.8	14.19	SE	10/19/2007
769	765325.4	981676.7	13.55	SE	10/19/2007
770	765290.6	981657.9	13.21	SE	10/19/2007
771	765499.2	981747.5	14.53	CL RR TRACK	10/19/2007
772	765500.9	981654.9	13.99	SE	10/19/2007
773	765343.2	981498.9	11.85	TD	10/19/2007
774	765330.9	981518.4	11.93	TD	10/19/2007
775	764832.5	980659.3	9.63	IRF BENT	10/19/2007
776	764489.9	981108.6	10.78	IRF	10/19/2007
8000	765193.2	982113.2	12.07	SE	10/19/2007
8001	765210.0	982122.6	11.83	SE	10/19/2007
8002	765303.1	982024.4	14.9	SE	10/19/2007
8003	765272.0	982051.0	14.82	SE	10/19/2007
8004	765242.6	982076.1	13.86	SE	10/19/2007
8005	765214.5	982100.4	12.29	SE	10/19/2007
8006	765198.6	982117.5	12.08	SE	10/19/2007
8007	765227.5	982131.0	12.11	SE	10/19/2007
8008	765248.8	982106.6	12.24	SE	10/19/2007
8009	765270.2	982083.2	12.62	SE	10/19/2007
8010	765292.3	982059.8	13.82	SE	10/19/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8011	765314.6	982036.5	13.93	SE	10/19/2007
8012	765272.6	981985.7	15.56	SE	10/19/2007
8013	765245.0	982006.3	15.63	SE	10/19/2007
8014	765220.2	982028.1	14.75	SE	10/19/2007
8015	765195.4	982050.4	13	SE	10/19/2007
8016	765172.3	982071.4	12.5	SE	10/19/2007
8017	765152.1	982091.6	12.29	SE	10/19/2007
8018	765106.3	982066.1	11.98	SE	10/19/2007
8019	765130.8	982045.6	12.23	SE	10/19/2007
8020	765154.4	982023.5	12.73	SE	10/19/2007
8021	765177.9	982004.8	14.14	SE	10/19/2007
8022	765204.1	981982.7	14.89	SE	10/19/2007
8023	765224.2	981961.9	15.31	SE	10/19/2007
8024	765239.3	981941.5	14.08	SE	10/19/2007
8025	765186.4	981916.8	11.33	SE	10/19/2007
8026	765183.6	981932.7	13.68	SE	10/19/2007
8027	765169.5	981959.9	14.89	SE	10/19/2007
8028	765152.6	981986.0	13.93	SE	10/19/2007
8029	765135.3	982012.1	12.55	SE	10/19/2007
8030	765118.0	982036.0	12.11	SE	10/19/2007
8031	765098.7	982063.3	12.08	SE	10/19/2007
8032	765062.6	982043.3	11.86	SE	10/19/2007
8033	765088.6	982017.9	12.2	SE	10/19/2007
8034	765112.2	981996.3	12.53	SE	10/19/2007
8035	765157.1	981957.1	14.8	SE	10/19/2007
8036	765190.8	981923.6	12.98	SE	10/19/2007
8037	765149.1	981893.0	11.41	SE	10/19/2007
8038	765126.7	981921.0	13.26	SE	10/19/2007
8039	765109.1	981944.9	14.22	SE	10/19/2007
8040	765092.5	981970.0	13.19	SE	10/19/2007
8041	765068.9	982004.5	12.09	SE	10/19/2007
8042	765045.3	982034.4	12.01	SE	10/19/2007
8043	765009.6	982014.0	12.15	SE	10/19/2007
8044	765025.0	981985.2	12.35	SE	10/19/2007
8045	765042.3	981954.3	12.59	SE	10/19/2007
8046	765058.0	981922.4	14.27	SE	10/19/2007
8047	765066.6	981896.6	12.52	SE	10/19/2007
8048	765076.8	981869.5	11.25	SE	10/19/2007
8049	765041.8	981854.3	11.39	SE	10/19/2007
8050	765028.5	981881.6	12.39	SE	10/19/2007
8051	765013.2	981908.9	13.05	SE	10/19/2007
8052	764993.4	981937.9	11.5	SE	10/19/2007
8053	764979.1	981957.6	11.97	SE	10/19/2007
8054	764958.8	981987.6	11.9	SE	10/19/2007
8055	764917.0	981965.4	11.52	SE	10/19/2007
8056	764935.7	981938.0	12	SE	10/19/2007
8057	764961.1	981913.8	11.2	SE	10/19/2007
8058	764983.8	981888.8	12.73	SE	10/19/2007
8059	765000.3	981864.7	11.96	SE	10/19/2007
8060	765014.0	981840.7	11.54	SE	10/19/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8061	765013.1	981840.1	11.64	SE	10/19/2007
8062	764998.7	981863.5	11.95	SE	10/19/2007
8063	764983.0	981889.3	12.75	SE	10/19/2007
8064	764966.9	981915.1	11.65	SE	10/19/2007
8065	764949.1	981938.3	11.9	SE	10/19/2007
8066	764923.8	981968.8	11.43	SE	10/19/2007
8067	764891.4	981950.7	10.99	SE	10/19/2007
8068	764913.5	981923.3	11.92	SE	10/19/2007
8069	764927.8	981910.6	11.36	SE	10/19/2007
8070	764944.6	981894.2	11.09	SE	10/19/2007
8071	764968.7	981872.4	13.02	SE	10/19/2007
8072	764981.2	981853.0	11.81	SE	10/19/2007
8073	764992.7	981829.8	11.44	SE	10/19/2007
8074	764951.3	981802.8	10.9	SE	10/19/2007
8075	764932.2	981821.5	11.25	SE	10/19/2007
8076	764908.9	981842.8	10.71	SE	10/19/2007
8077	764886.1	981858.5	10.7	SE	10/19/2007
8078	764866.9	981874.1	11.15	SE	10/19/2007
8079	764847.0	981888.1	10.07	SE	10/19/2007
8080	764812.7	981860.8	9.83	SE	10/19/2007
8081	764836.7	981838.0	10.96	SE	10/19/2007
8082	764856.0	981822.3	10.27	SE	10/19/2007
8083	764878.2	981801.0	10.46	SE	10/19/2007
8084	764891.9	981789.8	10.6	SE	10/19/2007
8085	764910.1	981769.3	11.51	SE	10/19/2007
8086	764892.3	981756.2	11.53	SE	10/19/2007
8087	764867.3	981776.0	10.26	SE	10/19/2007
8088	764838.7	981801.3	10.08	SE	10/19/2007
8089	764631.5	980994.2	6.32	TOB	10/19/2007
8089	764631.5	980994.2	6.32	TOB	10/19/2007
8090	764627.8	980993.5	4.7	TOE	10/19/2007
8090	764627.8	980993.5	4.7	TOE	10/19/2007
8091	764626.7	980993.4	4.61	CL	10/19/2007
8091	764626.7	980993.4	4.61	CL	10/19/2007
8092	764625.0	980993.9	4.87	TOE	10/19/2007
8092	764625.0	980993.9	4.87	TOE	10/19/2007
8093	764619.8	980994.5	7.36	TOB	10/19/2007
8093	764619.8	980994.5	7.36	TOB	10/19/2007
8094	764600.0	981028.3	7.91	TOB	10/19/2007
8094	764600.0	981028.3	7.91	TOB	10/19/2007
8095	764602.8	981030.4	4.36	TOE	10/19/2007
8095	764602.8	981030.4	4.36	TOE	10/19/2007
8096	764604.9	981030.6	4.45	CL	10/19/2007
8096	764604.9	981030.6	4.45	CL	10/19/2007
8097	764606.6	981031.5	4.59	TOE	10/19/2007
8097	764606.6	981031.5	4.59	TOE	10/19/2007
8098	764610.1	981033.4	7.03	TOB	10/19/2007
8098	764610.1	981033.4	7.03	TOB	10/19/2007
8099	764608.9	981038.9	6.98	TOB	10/19/2007
8099	764608.9	981038.9	6.98	TOB	10/19/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8100	764604.6	981039.6	4.42	TOE	10/19/2007
8100	764604.6	981039.6	4.42	TOE	10/19/2007
8101	764602.7	981039.7	3.95	CL	10/19/2007
8101	764602.7	981039.7	3.95	CL	10/19/2007
8102	764600.7	981040.2	3.98	TOE	10/19/2007
8102	764600.7	981040.2	3.98	TOE	10/19/2007
8103	764596.2	981040.3	8.45	TOB	10/19/2007
8103	764596.2	981040.3	8.45	TOB	10/19/2007
8104	764597.5	981047.8	9.03	TOB	10/19/2007
8104	764597.5	981047.8	9.03	TOB	10/19/2007
8105	764600.1	981053.0	8.57	TOB	10/19/2007
8105	764600.1	981053.0	8.57	TOB	10/19/2007
8106	764597.4	981057.5	9.04	TOB	10/19/2007
8106	764597.4	981057.5	9.04	TOB	10/19/2007
8107	764603.2	981057.1	5.27	TOB	10/19/2007
8107	764603.2	981057.1	5.27	TOB	10/19/2007
8108	764605.9	981049.8	4.69	TOE	10/19/2007
8108	764605.9	981049.8	4.69	TOE	10/19/2007
8109	764603.6	981045.5	4.6	TOE	10/19/2007
8109	764603.6	981045.5	4.6	TOE	10/19/2007
8110	764604.7	981044.5	4.19	CL	10/19/2007
8110	764604.7	981044.5	4.19	CL	10/19/2007
8111	764608.1	981049.9	4.16	CL	10/19/2007
8111	764608.1	981049.9	4.16	CL	10/19/2007
8112	764609.6	981047.8	4.28	TOE	10/19/2007
8112	764609.6	981047.8	4.28	TOE	10/19/2007
8113	764606.2	981043.6	4.51	TOE	10/19/2007
8113	764606.2	981043.6	4.51	TOE	10/19/2007
8114	764610.0	981041.7	6.53	TOB	10/19/2007
8114	764610.0	981041.7	6.53	TOB	10/19/2007
8115	764612.5	981045.2	6.32	TOB	10/19/2007
8115	764612.5	981045.2	6.32	TOB	10/19/2007
8116	764574.5	981152.8	7.09	TOB	10/19/2007
8116	764574.5	981152.8	7.09	TOB	10/19/2007
8117	764577.0	981143.1	7.29	TOB	10/19/2007
8117	764577.0	981143.1	7.29	TOB	10/19/2007
8118	764582.6	981141.8	6.81	TOB	10/19/2007
8118	764582.6	981141.8	6.81	TOB	10/19/2007
8119	764587.4	981145.8	6.81	TOB	10/19/2007
8119	764587.4	981145.8	6.81	TOB	10/19/2007
8120	764584.6	981159.6	7.17	TOB	10/19/2007
8120	764584.6	981159.6	7.17	TOB	10/19/2007
8121	764579.7	981158.5	4.53	TOE	10/19/2007
8121	764579.7	981158.5	4.53	TOE	10/19/2007
8122	764578.0	981157.6	4.21	CL	10/19/2007
8122	764578.0	981157.6	4.21	CL	10/19/2007
8123	764575.4	981156.7	4.62	TOE	10/19/2007
8123	764575.4	981156.7	4.62	TOE	10/19/2007
8124	764580.9	981149.3	4.68	TOE	10/19/2007
8124	764580.9	981149.3	4.68	TOE	10/19/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8125	764581.2	981150.4	4.15	CL	10/19/2007
8125	764581.2	981150.4	4.15	CL	10/19/2007
8126	764581.9	981150.5	5.86	60INRCPTOP	10/19/2007
8126	764581.9	981150.5	5.86	60INRCPTOP	10/19/2007
8127	764562.9	981181.5	7.04	TOB	10/19/2007
8127	764562.9	981181.5	7.04	TOB	10/19/2007
8128	764566.8	981183.0	5.68	TOE	10/19/2007
8128	764566.8	981183.0	5.68	TOE	10/19/2007
8129	764568.6	981183.5	5.32	CL	10/19/2007
8129	764568.6	981183.5	5.32	CL	10/19/2007
8130	764570.9	981183.6	5.73	TOE	10/19/2007
8130	764570.9	981183.6	5.73	TOE	10/19/2007
8131	764577.9	981185.5	7.64	TOB	10/19/2007
8131	764577.9	981185.5	7.64	TOB	10/19/2007
8132	764571.2	981222.5	7.9	TOB	10/19/2007
8132	764571.2	981222.5	7.9	TOB	10/19/2007
8133	764566.6	981222.5	5.55	TOE	10/19/2007
8133	764566.6	981222.5	5.55	TOE	10/19/2007
8134	764563.1	981221.6	5.07	CL	10/19/2007
8134	764563.1	981221.6	5.07	CL	10/19/2007
8135	764560.5	981221.3	5.59	TOE	10/19/2007
8135	764560.5	981221.3	5.59	TOE	10/19/2007
8136	764555.9	981221.4	7.53	TOB	10/19/2007
8136	764555.9	981221.4	7.53	TOB	10/19/2007
8137	764551.6	981258.8	7.93	TOB	10/19/2007
8137	764551.6	981258.8	7.93	TOB	10/19/2007
8138	764556.4	981259.7	5.4	TOE	10/19/2007
8138	764556.4	981259.7	5.4	TOE	10/19/2007
8139	764559.8	981260.0	4.93	CL	10/19/2007
8139	764559.8	981260.0	4.93	CL	10/19/2007
8140	764562.2	981259.9	5.13	TOE	10/19/2007
8140	764562.2	981259.9	5.13	TOE	10/19/2007
8141	764567.8	981260.9	8.67	TOB	10/19/2007
8141	764567.8	981260.9	8.67	TOB	10/19/2007
8142	764565.9	981343.8	9.89	TOB	10/19/2007
8142	764565.9	981343.8	9.89	TOB	10/19/2007
8143	764561.0	981347.4	10.16	TOB	10/19/2007
8143	764561.0	981347.4	10.16	TOB	10/19/2007
8144	764548.9	981348.6	9.99	TOB	10/19/2007
8144	764548.9	981348.6	9.99	TOB	10/19/2007
8145	764545.6	981338.6	8.73	TOB	10/19/2007
8145	764545.6	981338.6	8.73	TOB	10/19/2007
8146	764555.0	981335.8	6.24	TOE	10/19/2007
8146	764555.0	981335.8	6.24	TOE	10/19/2007
8147	764563.5	981334.0	5.95	TOE	10/19/2007
8147	764563.5	981334.0	5.95	TOE	10/19/2007
8148	764558.9	981335.5	5.43	CL DITCH	10/19/2007
8148	764558.9	981335.5	5.43	CL DITCH	10/19/2007
8149	764559.2	981336.8	5.02	IE24"CIP	10/19/2007
8149	764559.2	981336.8	5.02	IE24"CIP	10/19/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8150	764551.0	981380.1	9.59	TOB	10/19/2007
8150	764551.0	981380.1	9.59	TOB	10/19/2007
8151	764560.0	981372.2	9.76	TOB	10/19/2007
8151	764560.0	981372.2	9.76	TOB	10/19/2007
8152	764576.2	981372.4	9.65	TOB	10/19/2007
8152	764576.2	981372.4	9.65	TOB	10/19/2007
8153	764566.4	981376.9	4.64	IE24"CIP	10/19/2007
8153	764566.4	981376.9	4.64	IE24"CIP	10/19/2007
8154	764570.0	981378.4	5.2	TOE	10/19/2007
8154	764570.0	981378.4	5.2	TOE	10/19/2007
8155	764561.5	981379.9	5.73	TOE	10/19/2007
8155	764561.5	981379.9	5.73	TOE	10/19/2007
8156	764565.8	981378.8	4.26	CL DITCH	10/19/2007
8156	764565.8	981378.8	4.26	CL DITCH	10/19/2007
8157	765346.8	982010.0	13.78	SE	10/19/2007
8157	765346.8	982010.0	13.78	SE	10/19/2007
8158	765328.3	982027.6	13.78	SE	10/19/2007
8158	765328.3	982027.6	13.78	SE	10/19/2007
8159	765311.6	982045.8	13.72	SE	10/19/2007
8159	765311.6	982045.8	13.72	SE	10/19/2007
8160	765304.5	982070.3	12.66	SE	10/19/2007
8160	765304.5	982070.3	12.66	SE	10/19/2007
8161	765266.2	982102.0	11.92	SE	10/19/2007
8161	765266.2	982102.0	11.92	SE	10/19/2007
8162	765280.6	982112.6	11.95	SE	10/19/2007
8162	765280.6	982112.6	11.95	SE	10/19/2007
8163	765298.9	982140.1	11.5	SE	10/19/2007
8163	765298.9	982140.1	11.5	SE	10/19/2007
8164	765286.6	982153.2	11.26	SE	10/19/2007
8164	765286.6	982153.2	11.26	SE	10/19/2007
8165	765296.8	982161.8	10.98	SE	10/19/2007
8165	765296.8	982161.8	10.98	SE	10/19/2007
8166	765313.6	982150.4	11.48	SE	10/19/2007
8166	765313.6	982150.4	11.48	SE	10/19/2007
8167	765306.1	982175.9	10.01	SE	10/19/2007
8167	765306.1	982175.9	10.01	SE	10/19/2007
8168	765329.4	982185.3	9.66	SE	10/19/2007
8168	765329.4	982185.3	9.66	SE	10/19/2007
8169	765328.9	982147.7	11.26	SE	10/19/2007
8169	765328.9	982147.7	11.26	SE	10/19/2007
8170	765309.9	982116.0	11.74	SE	10/19/2007
8170	765309.9	982116.0	11.74	SE	10/19/2007
8171	765330.0	982102.2	12.44	SE	10/19/2007
8171	765330.0	982102.2	12.44	SE	10/19/2007
8172	765317.9	982079.3	12.64	SE	10/19/2007
8172	765317.9	982079.3	12.64	SE	10/19/2007
8173	765335.4	982051.8	12.65	SE	10/19/2007
8173	765335.4	982051.8	12.65	SE	10/19/2007
8174	765355.1	982046.8	12.62	SE	10/19/2007
8174	765355.1	982046.8	12.62	SE	10/19/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8175	765382.4	982032.0	11.97	SE	10/19/2007
8175	765382.4	982032.0	11.97	SE	10/19/2007
8176	765362.1	982011.4	12.83	SE	10/19/2007
8176	765362.1	982011.4	12.83	SE	10/19/2007
8177	765388.1	981984.8	13.06	SE	10/19/2007
8177	765388.1	981984.8	13.06	SE	10/19/2007
8178	765408.4	981999.7	12.39	SE	10/19/2007
8178	765408.4	981999.7	12.39	SE	10/19/2007
8179	765393.2	982012.4	12.21	SE	10/19/2007
8179	765393.2	982012.4	12.21	SE	10/19/2007
8180	765430.0	981980.7	12.31	SE	10/19/2007
8180	765430.0	981980.7	12.31	SE	10/19/2007
8181	765448.7	981961.4	12.42	SE	10/19/2007
8181	765448.7	981961.4	12.42	SE	10/19/2007
8182	765423.4	981943.0	12.89	SE	10/19/2007
8182	765423.4	981943.0	12.89	SE	10/19/2007
8183	765404.0	981962.5	13.05	SE	10/19/2007
8183	765404.0	981962.5	13.05	SE	10/19/2007
8184	764558.5	981429.3	9.71	TOB	10/19/2007
8184	764558.5	981429.3	9.71	TOB	10/19/2007
8185	764569.6	981426.2	5.13	TOE	10/19/2007
8185	764569.6	981426.2	5.13	TOE	10/19/2007
8186	764578.7	981454.9	5.13	TOE	10/19/2007
8186	764578.7	981454.9	5.13	TOE	10/19/2007
8187	764570.6	981459.1	9.07	TOB	10/19/2007
8187	764570.6	981459.1	9.07	TOB	10/19/2007
8188	764587.8	981496.2	8.83	TOB	10/19/2007
8188	764587.8	981496.2	8.83	TOB	10/19/2007
8189	764596.5	981492.4	5.12	TOE	10/19/2007
8189	764596.5	981492.4	5.12	TOE	10/19/2007
8190	764611.8	981521.4	5.48	TOE	10/19/2007
8190	764611.8	981521.4	5.48	TOE	10/19/2007
8191	764605.7	981525.8	8.31	TOB	10/19/2007
8191	764605.7	981525.8	8.31	TOB	10/19/2007
8192	764614.7	981519.3	5.29	TOE	10/19/2007
8192	764614.7	981519.3	5.29	TOE	10/19/2007
8193	764624.2	981513.1	9.1	TOB	10/19/2007
8193	764624.2	981513.1	9.1	TOB	10/19/2007
8194	764607.6	981481.2	9.31	TOB	10/19/2007
8194	764607.6	981481.2	9.31	TOB	10/19/2007
8195	764597.8	981485.1	4.83	TOE	10/19/2007
8195	764597.8	981485.1	4.83	TOE	10/19/2007
8196	764586.4	981457.8	4.84	TOE	10/19/2007
8196	764586.4	981457.8	4.84	TOE	10/19/2007
8198	764596.9	981452.5	8.92	TOB	10/19/2007
8198	764596.9	981452.5	8.92	TOB	10/19/2007
8199	764584.0	981427.1	7.65	TOB	10/19/2007
8199	764584.0	981427.1	7.65	TOB	10/19/2007
8200	764576.1	981428.6	4.52	TOE	10/19/2007
8200	764576.1	981428.6	4.52	TOE	10/19/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8201	764643.1	981539.3	10.21	TOB	10/19/2007
8201	764643.1	981539.3	10.21	TOB	10/19/2007
8202	764632.0	981544.8	5.32	TOE	10/19/2007
8202	764632.0	981544.8	5.32	TOE	10/19/2007
8203	764628.2	981546.5	5.58	TOE	10/19/2007
8203	764628.2	981546.5	5.58	TOE	10/19/2007
8204	764629.6	981546.0	5.59	CL DITCH	10/19/2007
8204	764629.6	981546.0	5.59	CL DITCH	10/19/2007
8205	764622.2	981550.5	8.48	TOB	10/19/2007
8205	764622.2	981550.5	8.48	TOB	10/19/2007
8206	764641.5	981576.2	8.41	TOB	10/19/2007
8206	764641.5	981576.2	8.41	TOB	10/19/2007
8207	764646.7	981572.1	6.21	TOE	10/19/2007
8207	764646.7	981572.1	6.21	TOE	10/19/2007
8208	764648.4	981570.5	5.9	CL	10/19/2007
8208	764648.4	981570.5	5.9	CL	10/19/2007
8209	764651.0	981569.1	5.82	TOE	10/19/2007
8209	764651.0	981569.1	5.82	TOE	10/19/2007
8210	764658.8	981562.5	10.23	TOB	10/19/2007
8210	764658.8	981562.5	10.23	TOB	10/19/2007
8211	764680.2	981588.5	10.24	TOB	10/19/2007
8211	764680.2	981588.5	10.24	TOB	10/19/2007
8212	764671.2	981596.1	5.94	TOE	10/19/2007
8212	764671.2	981596.1	5.94	TOE	10/19/2007
8213	764670.0	981597.4	5.97	CL	10/19/2007
8213	764670.0	981597.4	5.97	CL	10/19/2007
8214	764669.0	981598.4	6.15	TOE	10/19/2007
8214	764669.0	981598.4	6.15	TOE	10/19/2007
8215	764662.9	981603.4	8.61	TOB	10/19/2007
8215	764662.9	981603.4	8.61	TOB	10/19/2007
8216	764682.7	981626.9	8.89	TOB	10/19/2007
8216	764682.7	981626.9	8.89	TOB	10/19/2007
8217	764687.9	981621.4	6.37	TOE	10/19/2007
8217	764687.9	981621.4	6.37	TOE	10/19/2007
8218	764689.5	981620.2	6.06	CL DITCH	10/19/2007
8218	764689.5	981620.2	6.06	CL DITCH	10/19/2007
8219	764691.5	981618.5	6.15	TOE	10/19/2007
8219	764691.5	981618.5	6.15	TOE	10/19/2007
8220	764700.3	981610.2	9.93	TOB	10/19/2007
8220	764700.3	981610.2	9.93	TOB	10/19/2007
8221	764721.8	981630.8	10.12	TOB	10/19/2007
8221	764721.8	981630.8	10.12	TOB	10/19/2007
8222	764713.2	981640.0	6.21	TOE	10/19/2007
8222	764713.2	981640.0	6.21	TOE	10/19/2007
8223	764712.0	981641.1	6.19	CL	10/19/2007
8223	764712.0	981641.1	6.19	CL	10/19/2007
8224	764710.9	981641.9	6.22	TOE	10/19/2007
8224	764710.9	981641.9	6.22	TOE	10/19/2007
8225	764705.9	981649.0	9.06	TOB	10/19/2007
8225	764705.9	981649.0	9.06	TOB	10/19/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8226	764727.6	981667.6	9.08	TOB	10/19/2007
8226	764727.6	981667.6	9.08	TOB	10/19/2007
8227	764732.6	981662.2	6.45	TOE	10/19/2007
8227	764732.6	981662.2	6.45	TOE	10/19/2007
8228	764733.6	981661.5	6.33	CL	10/19/2007
8228	764733.6	981661.5	6.33	CL	10/19/2007
8229	764735.4	981659.0	6.42	TOE	10/19/2007
8229	764735.4	981659.0	6.42	TOE	10/19/2007
8230	764743.5	981648.5	10.6	TOB	10/19/2007
8230	764743.5	981648.5	10.6	TOB	10/19/2007
8231	764781.9	981678.5	11.02	TOB	10/19/2007
8231	764781.9	981678.5	11.02	TOB	10/19/2007
8232	764775.4	981687.7	6.71	TOE	10/19/2007
8232	764775.4	981687.7	6.71	TOE	10/19/2007
8233	764774.2	981689.8	6.43	CL	10/19/2007
8233	764774.2	981689.8	6.43	CL	10/19/2007
8234	764772.9	981691.8	6.58	TOE	10/19/2007
8234	764772.9	981691.8	6.58	TOE	10/19/2007
8235	764769.4	981697.3	8.91	TOB	10/19/2007
8235	764769.4	981697.3	8.91	TOB	10/19/2007
8236	764791.6	981714.0	8.98	TOB	10/19/2007
8236	764791.6	981714.0	8.98	TOB	10/19/2007
8237	764797.2	981709.3	6.86	TOE	10/19/2007
8237	764797.2	981709.3	6.86	TOE	10/19/2007
8238	764799.3	981707.3	6.7	CL DITCH INT	10/19/2007
8238	764799.3	981707.3	6.7	CL DITCH INT	10/19/2007
8239	764802.0	981704.3	7.32	TOE	10/19/2007
8239	764802.0	981704.3	7.32	TOE	10/19/2007
8240	764808.8	981696.1	11.2	TOB	10/19/2007
8240	764808.8	981696.1	11.2	TOB	10/19/2007
8241	764853.9	981728.3	11.42	TOB	10/19/2007
8241	764853.9	981728.3	11.42	TOB	10/19/2007
8242	764846.4	981738.1	7.2	TOE	10/19/2007
8242	764846.4	981738.1	7.2	TOE	10/19/2007
8243	764844.9	981740.1	6.95	CL	10/19/2007
8243	764844.9	981740.1	6.95	CL	10/19/2007
8244	764843.3	981742.1	7.2	TOE	10/19/2007
8244	764843.3	981742.1	7.2	TOE	10/19/2007
8245	764839.9	981745.8	9.25	TOB	10/19/2007
8245	764839.9	981745.8	9.25	TOB	10/19/2007
8246	764883.9	981780.9	10.19	TOB	10/19/2007
8246	764883.9	981780.9	10.19	TOB	10/19/2007
8247	764890.4	981775.1	7.19	TOE	10/19/2007
8247	764890.4	981775.1	7.19	TOE	10/19/2007
8248	764894.6	981777.6	7.31	CL	10/19/2007
8248	764894.6	981777.6	7.31	CL	10/19/2007
8249	764896.6	981775.8	7.76	TOE	10/19/2007
8249	764896.6	981775.8	7.76	TOE	10/19/2007
8250	764901.6	981769.8	10.88	TOB	10/19/2007
8250	764901.6	981769.8	10.88	TOB	10/19/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8251	764944.7	981800.3	10.58	TOB	10/19/2007
8251	764944.7	981800.3	10.58	TOB	10/19/2007
8252	764941.1	981806.9	7.55	TOE	10/19/2007
8252	764941.1	981806.9	7.55	TOE	10/19/2007
8253	764939.8	981808.7	7.49	CL	10/19/2007
8253	764939.8	981808.7	7.49	CL	10/19/2007
8254	764939.0	981809.7	7.87	TOE	10/19/2007
8254	764939.0	981809.7	7.87	TOE	10/19/2007
8255	764933.3	981815.6	10.68	TOB	10/19/2007
8255	764933.3	981815.6	10.68	TOB	10/19/2007
8256	764976.6	981847.2	11.44	TOB	10/19/2007
8256	764976.6	981847.2	11.44	TOB	10/19/2007
8257	764981.0	981840.4	8.14	TOE	10/19/2007
8257	764981.0	981840.4	8.14	TOE	10/19/2007
8258	764982.2	981839.0	8.09	CL	10/19/2007
8258	764982.2	981839.0	8.09	CL	10/19/2007
8259	764983.4	981836.7	8.25	TOE	10/19/2007
8259	764983.4	981836.7	8.25	TOE	10/19/2007
8260	764986.6	981830.9	11.35	TOB	10/19/2007
8260	764986.6	981830.9	11.35	TOB	10/19/2007
8261	765029.8	981855.9	11.58	TOB	10/19/2007
8261	765029.8	981855.9	11.58	TOB	10/19/2007
8262	765025.8	981863.7	8.72	TOE	10/19/2007
8262	765025.8	981863.7	8.72	TOE	10/19/2007
8263	765024.9	981865.4	8.72	CL	10/19/2007
8263	765024.9	981865.4	8.72	CL	10/19/2007
8264	765024.5	981866.6	9.13	TOE	10/19/2007
8264	765024.5	981866.6	9.13	TOE	10/19/2007
8265	765020.2	981872.7	11.83	TOB	10/19/2007
8265	765020.2	981872.7	11.83	TOB	10/19/2007
8266	765076.7	981895.0	12.19	TOB	10/19/2007
8266	765076.7	981895.0	12.19	TOB	10/19/2007
8267	765079.1	981888.3	9.87	TOE	10/19/2007
8267	765079.1	981888.3	9.87	TOE	10/19/2007
8268	765079.6	981886.3	9.67	CL	10/19/2007
8268	765079.6	981886.3	9.67	CL	10/19/2007
8269	765080.8	981883.9	9.61	TOE	10/19/2007
8269	765080.8	981883.9	9.61	TOE	10/19/2007
8270	765083.0	981878.8	11	TOB	10/19/2007
8270	765083.0	981878.8	11	TOB	10/19/2007
8271	765144.3	981895.4	11.35	TOB	10/19/2007
8271	765144.3	981895.4	11.35	TOB	10/19/2007
8272	765142.6	981901.7	9.91	TOE	10/19/2007
8272	765142.6	981901.7	9.91	TOE	10/19/2007
8273	765141.0	981903.2	9.86	CL	10/19/2007
8273	765141.0	981903.2	9.86	CL	10/19/2007
8274	765140.0	981904.9	10.07	TOE	10/19/2007
8274	765140.0	981904.9	10.07	TOE	10/19/2007
8275	765137.4	981910.1	11.88	TOB	10/19/2007
8275	765137.4	981910.1	11.88	TOB	10/19/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8276	765169.5	981917.1	12.34	TOB	10/19/2007
8276	765169.5	981917.1	12.34	TOB	10/19/2007
8277	765170.2	981910.7	10.11	TOE	10/19/2007
8277	765170.2	981910.7	10.11	TOE	10/19/2007
8278	765171.2	981908.3	10.02	CL	10/19/2007
8278	765171.2	981908.3	10.02	CL	10/19/2007
8279	765171.3	981907.2	9.77	TOE	10/19/2007
8279	765171.3	981907.2	9.77	TOE	10/19/2007
8280	765172.2	981901.7	10.98	TOB	10/19/2007
8280	765172.2	981901.7	10.98	TOB	10/19/2007
8281	765238.8	981904.4	10.56	SE	10/19/2007
8281	765238.8	981904.4	10.56	SE	10/19/2007
8282	765238.9	981914.8	10.84	SE	10/19/2007
8282	765238.9	981914.8	10.84	SE	10/19/2007
8283	765239.8	981922.7	12.93	SE	10/19/2007
8283	765239.8	981922.7	12.93	SE	10/19/2007
8284	765154.2	982029.8	12.05	TOB	10/19/2007
8284	765154.2	982029.8	12.05	TOB	10/19/2007
8285	765160.7	982036.5	11.77	TOB	10/19/2007
8285	765160.7	982036.5	11.77	TOB	10/19/2007
8286	765161.2	982041.8	11.58	TOB	10/19/2007
8286	765161.2	982041.8	11.58	TOB	10/19/2007
8287	765156.2	982044.0	11.87	TOB	10/19/2007
8287	765156.2	982044.0	11.87	TOB	10/19/2007
8288	765149.1	982041.9	11.9	TOB	10/19/2007
8288	765149.1	982041.9	11.9	TOB	10/19/2007
8289	765154.7	982038.0	10.72	TOE	10/19/2007
8289	765154.7	982038.0	10.72	TOE	10/19/2007
8290	765155.2	982036.5	10.65	CL	10/19/2007
8290	765155.2	982036.5	10.65	CL	10/19/2007
8291	765155.6	982034.5	10.98	TOE	10/19/2007
8291	765155.6	982034.5	10.98	TOE	10/19/2007
8292	765109.7	982005.2	11.94	TOB	10/19/2007
8292	765109.7	982005.2	11.94	TOB	10/19/2007
8293	765107.1	982010.1	10.01	TOE	10/19/2007
8293	765107.1	982010.1	10.01	TOE	10/19/2007
8294	765106.7	982011.0	9.76	CL	10/19/2007
8294	765106.7	982011.0	9.76	CL	10/19/2007
8295	765105.8	982012.5	9.89	TOE	10/19/2007
8295	765105.8	982012.5	9.89	TOE	10/19/2007
8296	765102.8	982018.2	11.77	TOB	10/19/2007
8296	765102.8	982018.2	11.77	TOB	10/19/2007
8297	765052.5	981995.4	12.03	TOB	10/19/2007
8297	765052.5	981995.4	12.03	TOB	10/19/2007
8298	765057.1	981988.0	9.5	TOE	10/19/2007
8298	765057.1	981988.0	9.5	TOE	10/19/2007
8299	765057.8	981986.6	9.43	CL	10/19/2007
8299	765057.8	981986.6	9.43	CL	10/19/2007
8300	765058.5	981985.1	9.62	TOE	10/19/2007
8300	765058.5	981985.1	9.62	TOE	10/19/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8301	765061.0	981979.8	11.5	TOB	10/19/2007
8301	765061.0	981979.8	11.5	TOB	10/19/2007
8302	765019.0	981956.1	11.5	TOB	10/19/2007
8302	765019.0	981956.1	11.5	TOB	10/19/2007
8303	765015.7	981961.0	9.25	TOE	10/19/2007
8303	765015.7	981961.0	9.25	TOE	10/19/2007
8304	765014.4	981962.6	8.96	CL	10/19/2007
8304	765014.4	981962.6	8.96	CL	10/19/2007
8305	765013.7	981964.2	9.05	TOE	10/19/2007
8305	765013.7	981964.2	9.05	TOE	10/19/2007
8306	765009.0	981971.5	11.84	TOB	10/19/2007
8306	765009.0	981971.5	11.84	TOB	10/19/2007
8307	764962.0	981947.5	11.91	TOB	10/19/2007
8307	764962.0	981947.5	11.91	TOB	10/19/2007
8308	764968.1	981939.2	8.62	TOE	10/19/2007
8308	764968.1	981939.2	8.62	TOE	10/19/2007
8309	764968.8	981937.7	8.62	CL	10/19/2007
8309	764968.8	981937.7	8.62	CL	10/19/2007
8310	764969.8	981936.1	8.79	TOE	10/19/2007
8310	764969.8	981936.1	8.79	TOE	10/19/2007
8311	764972.5	981931.9	10.57	TOB	10/19/2007
8311	764972.5	981931.9	10.57	TOB	10/19/2007
8312	764935.5	981889.1	10.99	TOB	10/19/2007
8312	764935.5	981889.1	10.99	TOB	10/19/2007
8313	764930.9	981892.7	10.79	CHW	10/19/2007
8313	764930.9	981892.7	10.79	CHW	10/19/2007
8314	764929.9	981891.2	10.76	CHW	10/19/2007
8314	764929.9	981891.2	10.76	CHW	10/19/2007
8315	764925.3	981894.6	10.79	CHW	10/19/2007
8315	764925.3	981894.6	10.79	CHW	10/19/2007
8316	764926.4	981896.2	10.71	CHW	10/19/2007
8316	764926.4	981896.2	10.71	CHW	10/19/2007
8317	764922.8	981898.8	11.07	TOB	10/19/2007
8317	764922.8	981898.8	11.07	TOB	10/19/2007
8318	764928.1	981896.7	8.5	TOE	10/19/2007
8318	764928.1	981896.7	8.5	TOE	10/19/2007
8319	764928.8	981895.3	8.28	IE15"RCP	10/19/2007
8319	764928.8	981895.3	8.28	IE15"RCP	10/19/2007
8320	764929.5	981896.0	8.23	CL	10/19/2007
8320	764929.5	981896.0	8.23	CL	10/19/2007
8321	764930.8	981895.1	8.3	TOE	10/19/2007
8321	764930.8	981895.1	8.3	TOE	10/19/2007
8322	764910.8	981857.1	10.64	TOB	10/19/2007
8322	764910.8	981857.1	10.64	TOB	10/19/2007
8323	764907.2	981860.0	10.7	CHW	10/19/2007
8323	764907.2	981860.0	10.7	CHW	10/19/2007
8324	764908.4	981861.5	10.68	CHW	10/19/2007
8324	764908.4	981861.5	10.68	CHW	10/19/2007
8325	764903.5	981864.9	10.68	CHW	10/19/2007
8325	764903.5	981864.9	10.68	CHW	10/19/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8326	764902.5	981863.4	10.71	CHW	10/19/2007
8326	764902.5	981863.4	10.71	CHW	10/19/2007
8327	764898.3	981866.7	10.88	TOB	10/19/2007
8327	764898.3	981866.7	10.88	TOB	10/19/2007
8328	764903.3	981862.0	7.92	TOE	10/19/2007
8328	764903.3	981862.0	7.92	TOE	10/19/2007
8329	764904.5	981861.4	8.28	IE15INRCP	10/19/2007
8329	764904.5	981861.4	8.28	IE15INRCP	10/19/2007
8330	764905.7	981860.5	8.01	TOE	10/19/2007
8330	764905.7	981860.5	8.01	TOE	10/19/2007
8331	764877.7	981803.6	10.32	TOB	10/19/2007
8331	764877.7	981803.6	10.32	TOB	10/19/2007
8332	764870.5	981807.8	7.67	TOE	10/19/2007
8332	764870.5	981807.8	7.67	TOE	10/19/2007
8333	764868.0	981809.2	7.21	CL	10/19/2007
8333	764868.0	981809.2	7.21	CL	10/19/2007
8334	764866.9	981810.2	7.14	TOE	10/19/2007
8334	764866.9	981810.2	7.14	TOE	10/19/2007
8335	764861.2	981815.5	9.79	TOB	10/19/2007
8335	764861.2	981815.5	9.79	TOB	10/19/2007
8336	764825.0	981764.9	9.44	TOB	10/19/2007
8336	764825.0	981764.9	9.44	TOB	10/19/2007
8337	764831.8	981759.9	7.38	TOE	10/19/2007
8337	764831.8	981759.9	7.38	TOE	10/19/2007
8338	764833.6	981758.5	7.1	CL	10/19/2007
8338	764833.6	981758.5	7.1	CL	10/19/2007
8339	764835.4	981757.2	7.34	TOE	10/19/2007
8339	764835.4	981757.2	7.34	TOE	10/19/2007
8340	764838.8	981753.1	9.17	TOB	10/19/2007
8340	764838.8	981753.1	9.17	TOB	10/19/2007
8341	764824.5	981735.0	8.33	TOB	10/19/2007
8341	764824.5	981735.0	8.33	TOB	10/19/2007
8342	764821.3	981731.2	7.8	TOB	10/19/2007
8342	764821.3	981731.2	7.8	TOB	10/19/2007
8343	764821.7	981729.8	7.79	TOB	10/19/2007
8343	764821.7	981729.8	7.79	TOB	10/19/2007
8344	764822.9	981729.1	7.89	TOB	10/19/2007
8344	764822.9	981729.1	7.89	TOB	10/19/2007
8345	764826.6	981731.7	8.26	TOB	10/19/2007
8345	764826.6	981731.7	8.26	TOB	10/19/2007
8346	764828.6	981729.3	6.9	TOE	10/19/2007
8346	764828.6	981729.3	6.9	TOE	10/19/2007
8347	764824.5	981726.4	6.96	TOE	10/19/2007
8347	764824.5	981726.4	6.96	TOE	10/19/2007
8348	764820.3	981725.1	6.9	TOE	10/19/2007
8348	764820.3	981725.1	6.9	TOE	10/19/2007
8349	764816.9	981726.0	7.04	TOE	10/19/2007
8349	764816.9	981726.0	7.04	TOE	10/19/2007
8350	764816.8	981729.5	7.11	TOE	10/19/2007
8350	764816.8	981729.5	7.11	TOE	10/19/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8351	764820.7	981737.0	6.96	TOE	10/19/2007
8351	764820.7	981737.0	6.96	TOE	10/19/2007
10000	764253.4	981330.3	9.1	TIEPKF4000	10/19/2007
10001	764490.0	981108.5	9.39	TIETO4002	10/19/2007
10002	764832.6	980659.4	8.25	TIETO4001	10/19/2007
10003	764722.9	981699.2	9.69	IRS	10/19/2007
10004	765229.3	982131.9	12.26	IRS	10/19/2007
10005	764859.0	981934.3	10.89	3/4IPF	10/19/2007
10006	765383.1	981713.1	12.65	NLF7	10/19/2007
10007	765513.7	981662.4	12.77	NLF8	10/19/2007
10008	765433.5	981536.5	11.69	NLF9	10/19/2007
11000	765192.8	982114.4	12.18	STK 1057/FL	10/19/2007
11001	765209.5	982123.7	11.8	STK 1067/FL	10/19/2007
11002	765209.5	982107.8	12.17	STK 1067	10/19/2007
11003	765247.0	982075.0	13.99	STK 1072	10/19/2007
11004	765284.5	982042.0	14.97	STK 1082	10/19/2007
11005	765251.5	982004.5	15.66	STK 1081	10/19/2007
11006	765218.6	981966.8	15.29	STK 1080	10/19/2007
11007	765185.5	981929.3	13.38	STK 1079	10/19/2007
11008	765143.2	981900.1	10.29	STK 1078	10/19/2007
11009	765082.0	981887.0	9.58	STK 1077	10/19/2007
11010	764985.4	981839.1	7.96	STK 1060	10/19/2007
11011	764942.8	981809.8	7.42	STK 1059	10/19/2007
11012	764901.6	981779.5	7.65	STK 1058	10/19/2007
11013	764878.7	981799.6	10.39	STK 1048	10/19/2007
11014	764886.3	981859.6	10.79	STK 1028	10/19/2007
11015	764855.2	981896.2	10.39	STK 1010/FL	10/19/2007
11016	764859.2	981934.7	10.67	STK 1011/FL	10/19/2007
11017	764947.9	981871.7	12.28	STK 1050	10/19/2007
11018	765086.6	982016.2	12.2	STK 1054	10/19/2007
11019	765110.6	981995.2	12.56	STK 1064	10/19/2007
11020	765121.2	982052.4	12.21	STK 1055	10/19/2007
11021	765143.4	982032.8	10.39	STK 1065	10/19/2007
11022	765176.6	982070.2	12.62	STK 1066	10/19/2007
11023	765430.5	981980.4	12.19	STK 1092	10/19/2007
11024	765392.7	982013.3	12.13	STK 1091	10/19/2007
11025	765355.2	982046.3	12.6	STK 1084	10/19/2007
11026	765317.6	982079.3	12.65	STK 1083	10/19/2007
11027	765280.2	982112.2	11.93	STK 1071	10/19/2007
11028	765313.1	982149.8	11.33	STK 1070	10/19/2007
11029	765305.6	982176.1	10.05	STK 1069 FL	10/19/2007
11030	765329.2	982028.3	13.7	1085	10/19/2007
8500	764682.0	981667.8	9.18	SE	10/23/2007
8501	764694.1	981652.7	9.8	SE	10/23/2007
8502	764657.7	981617.6	9.44	SE	10/23/2007
8503	764645.1	981638.8	8.81	SE	10/23/2007
8504	764605.3	981609.1	8.37	SE	10/23/2007
8505	764627.1	981583.2	9.14	SE	10/23/2007
8506	764590.3	981548.7	9.42	SE	10/23/2007
8507	764568.5	981581.0	7.96	SE	10/23/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8508	764527.2	981548.3	8.08	SE	10/23/2007
8509	764556.1	981515.9	9.4	SE	10/23/2007
8510	764528.1	981468.4	9.2	SE	10/23/2007
8511	764500.0	981510.0	8.32	SE	10/23/2007
8512	764450.9	981488.9	8.19	SE	10/23/2007
8513	764484.1	981449.4	9.34	SE	10/23/2007
8514	764518.8	981422.3	9.13	SE	10/23/2007
8515	764495.9	981378.6	9.21	SE	10/23/2007
8516	764469.1	981424.3	8.57	SE	10/23/2007
8517	764447.0	981468.1	9.34	SE	10/23/2007
8518	764404.0	981444.6	9.59	SE	10/23/2007
8519	764439.4	981407.5	7.95	SE	10/23/2007
8520	764473.6	981369.4	8.49	SE	10/23/2007
8521	764503.7	981336.5	9.4	SE	10/23/2007
8522	764510.8	981283.4	8.51	SE	10/23/2007
8523	764474.7	981318.2	8.44	SE	10/23/2007
8524	764436.7	981352.0	7.75	SE	10/23/2007
8525	764399.0	981385.2	7.82	SE	10/23/2007
8526	764367.6	981424.6	9.54	SE	10/23/2007
8527	764363.3	981396.2	7	SE	10/23/2007
12009	764748.2	981399.9	11.04	ISB22	10/25/2007
12010	764706.6	981401.3	10.42	ISB15	10/25/2007
12011	764733.0	981433.4	10.42	ISB14	10/25/2007
12012	764763.5	981459.2	10.86	ISB19	10/25/2007
12013	764815.0	981472.1	12.18	ISB13	10/25/2007
12014	764858.9	981475.8	12.09	ISB23	10/25/2007
12015	764854.8	981497.4	11.88	ISB12	10/25/2007
12016	764823.5	981517.5	11.5	HA-07-02	10/25/2007
12017	764850.9	981550.8	11.72	ISB 18	10/25/2007
12018	764897.8	981525.8	12.58	ISB 11	10/25/2007
12019	764910.5	981586.5	12.49	ISB 17	10/25/2007
12020	764911.2	981606.1	12.24	HA-07-06	10/25/2007
12021	764879.2	981617.7	11.46	HA-07-03	10/25/2007
12022	764735.1	981354.7	10.96	ISB21	10/25/2007
12023	764708.6	981362.8	10.82	ISB20	10/25/2007
12024	764669.7	981355.9	10.79	ISB16	10/25/2007
12025	764656.1	981348.1	10.46	ISB24	10/25/2007
13000	764654.9	981376.9	8.99	TOB	10/25/2007
13000	764654.9	981376.9	8.99	TOB	10/25/2007
13001	764657.3	981372.1	9.27	TOB	10/25/2007
13001	764657.3	981372.1	9.27	TOB	10/25/2007
13002	764660.7	981369.2	10.53	TOB	10/25/2007
13002	764660.7	981369.2	10.53	TOB	10/25/2007
13003	764670.8	981370.0	10.47	TOB	10/25/2007
13003	764670.8	981370.0	10.47	TOB	10/25/2007
13004	764675.6	981374.0	9.95	TOB	10/25/2007
13004	764675.6	981374.0	9.95	TOB	10/25/2007
13005	764678.8	981377.7	9.86	TOB	10/25/2007
13005	764678.8	981377.7	9.86	TOB	10/25/2007
13006	764669.2	981379.1	5.53	TOE	10/25/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
13006	764669.2	981379.1	5.53	TOE	10/25/2007
13007	764667.7	981378.3	5.39	CL DITCH	10/25/2007
13007	764667.7	981378.3	5.39	CL DITCH	10/25/2007
13008	764665.5	981378.0	5.65	TOE	10/25/2007
13008	764665.5	981378.0	5.65	TOE	10/25/2007
13009	764668.0	981376.5	5.26	24"RCP	10/25/2007
13009	764668.0	981376.5	5.26	24"RCP	10/25/2007
13010	764667.5	981416.2	9.18	TOB	10/25/2007
13010	764667.5	981416.2	9.18	TOB	10/25/2007
13011	764672.7	981414.4	6.95	TOE	10/25/2007
13011	764672.7	981414.4	6.95	TOE	10/25/2007
13012	764676.6	981413.9	6.67	CL DITCH	10/25/2007
13012	764676.6	981413.9	6.67	CL DITCH	10/25/2007
13013	764680.7	981412.9	7.13	TOE	10/25/2007
13013	764680.7	981412.9	7.13	TOE	10/25/2007
13014	764688.0	981411.1	9.71	TOB	10/25/2007
13014	764688.0	981411.1	9.71	TOB	10/25/2007
13015	764701.8	981445.7	10.07	TOB	10/25/2007
13015	764701.8	981445.7	10.07	TOB	10/25/2007
13016	764694.5	981449.7	7.16	TOE	10/25/2007
13016	764694.5	981449.7	7.16	TOE	10/25/2007
13017	764691.2	981451.3	7.13	CL DITCH	10/25/2007
13017	764691.2	981451.3	7.13	CL DITCH	10/25/2007
13018	764687.5	981452.9	7.56	TOE	10/25/2007
13018	764687.5	981452.9	7.56	TOE	10/25/2007
13019	764683.0	981454.5	9.24	TOB	10/25/2007
13019	764683.0	981454.5	9.24	TOB	10/25/2007
13020	764700.5	981487.2	9.59	TOB	10/25/2007
13020	764700.5	981487.2	9.59	TOB	10/25/2007
13021	764705.7	981484.1	7.71	TOE	10/25/2007
13021	764705.7	981484.1	7.71	TOE	10/25/2007
13022	764709.1	981482.1	7.42	CL DITCH	10/25/2007
13022	764709.1	981482.1	7.42	CL DITCH	10/25/2007
13023	764711.9	981480.5	7.5	TOE	10/25/2007
13023	764711.9	981480.5	7.5	TOE	10/25/2007
13024	764716.5	981478.1	9.22	TOB	10/25/2007
13024	764716.5	981478.1	9.22	TOB	10/25/2007
13025	764737.3	981509.3	9.38	TOB	10/25/2007
13025	764737.3	981509.3	9.38	TOB	10/25/2007
13026	764733.5	981512.5	7.62	TOE	10/25/2007
13026	764733.5	981512.5	7.62	TOE	10/25/2007
13027	764730.9	981514.0	7.56	CL DITCH	10/25/2007
13027	764730.9	981514.0	7.56	CL DITCH	10/25/2007
13028	764727.8	981515.7	7.79	TOE	10/25/2007
13028	764727.8	981515.7	7.79	TOE	10/25/2007
13029	764725.3	981518.1	9.91	TOB	10/25/2007
13029	764725.3	981518.1	9.91	TOB	10/25/2007
13030	764749.3	981548.7	9.95	TOB	10/25/2007
13030	764749.3	981548.7	9.95	TOB	10/25/2007
13031	764752.3	981545.8	8.01	TOE	10/25/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
13031	764752.3	981545.8	8.01	TOE	10/25/2007
13032	764755.5	981542.8	7.77	CL DITCH	10/25/2007
13032	764755.5	981542.8	7.77	CL DITCH	10/25/2007
13033	764759.4	981540.3	7.95	TOE	10/25/2007
13033	764759.4	981540.3	7.95	TOE	10/25/2007
13034	764761.9	981538.8	9.38	TOB	10/25/2007
13034	764761.9	981538.8	9.38	TOB	10/25/2007
13035	764792.6	981567.7	9.21	TOB	10/25/2007
13035	764792.6	981567.7	9.21	TOB	10/25/2007
13036	764789.9	981570.5	8.02	TOE	10/25/2007
13036	764789.9	981570.5	8.02	TOE	10/25/2007
13037	764787.6	981573.0	7.89	CL DITCH	10/25/2007
13037	764787.6	981573.0	7.89	CL DITCH	10/25/2007
13038	764785.5	981576.2	8.23	TOE	10/25/2007
13038	764785.5	981576.2	8.23	TOE	10/25/2007
13039	764782.6	981580.7	10.51	TOB	10/25/2007
13039	764782.6	981580.7	10.51	TOB	10/25/2007
13040	764813.0	981604.0	10.77	TOB	10/25/2007
13040	764813.0	981604.0	10.77	TOB	10/25/2007
13041	764816.1	981598.7	8.11	TOE	10/25/2007
13041	764816.1	981598.7	8.11	TOE	10/25/2007
13042	764818.4	981596.0	8.11	CL DITCH	10/25/2007
13042	764818.4	981596.0	8.11	CL DITCH	10/25/2007
13043	764820.8	981593.7	7.92	TOE	10/25/2007
13043	764820.8	981593.7	7.92	TOE	10/25/2007
13044	764823.3	981591.6	9.47	TOB	10/25/2007
13044	764823.3	981591.6	9.47	TOB	10/25/2007
13045	764854.6	981612.0	10.12	TOB	10/25/2007
13045	764854.6	981612.0	10.12	TOB	10/25/2007
13046	764850.8	981616.7	8.27	TOE	10/25/2007
13046	764850.8	981616.7	8.27	TOE	10/25/2007
13047	764849.0	981619.8	8.2	CL DITCH	10/25/2007
13047	764849.0	981619.8	8.2	CL DITCH	10/25/2007
13048	764847.8	981622.7	8.47	TOE	10/25/2007
13048	764847.8	981622.7	8.47	TOE	10/25/2007
13049	764845.8	981626.4	10.64	TOB	10/25/2007
13049	764845.8	981626.4	10.64	TOB	10/25/2007
13050	764887.8	981658.2	11.18	TOB	10/25/2007
13050	764887.8	981658.2	11.18	TOB	10/25/2007
13051	764890.7	981655.1	9.1	TOE	10/25/2007
13051	764890.7	981655.1	9.1	TOE	10/25/2007
13052	764893.5	981651.3	9.17	CL DITCH	10/25/2007
13052	764893.5	981651.3	9.17	CL DITCH	10/25/2007
13053	764896.5	981647.5	9.19	TOE	10/25/2007
13053	764896.5	981647.5	9.19	TOE	10/25/2007
13054	764899.3	981644.7	10.9	TOB	10/25/2007
13054	764899.3	981644.7	10.9	TOB	10/25/2007
13055	764878.7	981645.9	8.6	SE	10/25/2007
13055	764878.7	981645.9	8.6	SE	10/25/2007
13056	764906.4	981620.9	11.47	SE	10/25/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
13056	764906.4	981620.9	11.47	SE	10/25/2007
13057	764874.5	981591.3	11.89	SE	10/25/2007
13057	764874.5	981591.3	11.89	SE	10/25/2007
13058	764851.7	981623.6	8.31	SE	10/25/2007
13058	764851.7	981623.6	8.31	SE	10/25/2007
13059	764819.3	981587.8	9.39	SE	10/25/2007
13059	764819.3	981587.8	9.39	SE	10/25/2007
13060	764847.5	981557.8	11.65	SE	10/25/2007
13060	764847.5	981557.8	11.65	SE	10/25/2007
13061	764868.5	981537.0	12.38	SE	10/25/2007
13061	764868.5	981537.0	12.38	SE	10/25/2007
13062	764837.2	981498.9	11.82	SE	10/25/2007
13062	764837.2	981498.9	11.82	SE	10/25/2007
13063	764810.9	981524.0	10.99	SE	10/25/2007
13063	764810.9	981524.0	10.99	SE	10/25/2007
13064	764785.9	981547.4	9.9	SE	10/25/2007
13064	764785.9	981547.4	9.9	SE	10/25/2007
13065	764753.3	981510.7	10.17	SE	10/25/2007
13065	764753.3	981510.7	10.17	SE	10/25/2007
13066	764786.6	981481.6	11.18	SE	10/25/2007
13066	764786.6	981481.6	11.18	SE	10/25/2007
13067	764811.2	981460.4	11.25	SE	10/25/2007
13067	764811.2	981460.4	11.25	SE	10/25/2007
13068	764781.4	981428.5	11.23	SE	10/25/2007
13068	764781.4	981428.5	11.23	SE	10/25/2007
13069	764749.1	981450.1	10.64	SE	10/25/2007
13069	764749.1	981450.1	10.64	SE	10/25/2007
13070	764720.6	981472.9	9.85	SE	10/25/2007
13070	764720.6	981472.9	9.85	SE	10/25/2007
13071	764699.8	981431.1	10.09	SE	10/25/2007
13071	764699.8	981431.1	10.09	SE	10/25/2007
13072	764737.8	981414.7	10.74	SE	10/25/2007
13072	764737.8	981414.7	10.74	SE	10/25/2007
13073	764768.8	981402.2	11.16	SE	10/25/2007
13073	764768.8	981402.2	11.16	SE	10/25/2007
13074	764647.1	981348.3	10.29	SE	10/25/2007
13074	764647.1	981348.3	10.29	SE	10/25/2007
13075	764653.5	981369.4	10	SE	10/25/2007
13075	764653.5	981369.4	10	SE	10/25/2007
13076	764681.4	981362.1	10.69	SE	10/25/2007
13076	764681.4	981362.1	10.69	SE	10/25/2007
13077	764717.9	981364.0	10.57	SE	10/25/2007
13077	764717.9	981364.0	10.57	SE	10/25/2007
742	764611.5	981042.2	8.1	TD	10/26/2007
743	764605.8	981045.7	5.84	CLD	10/26/2007
744	764599.5	981050.8	9.94	TD	10/26/2007
745	764653.4	981090.0	10.66	CL RR TRACK	10/26/2007
746	764712.6	981100.8	7.04	TD	10/26/2007
747	764703.7	981106.3	5.29	CLD	10/26/2007
748	764691.3	981121.1	8.02	TD	10/26/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
749	764742.2	981159.8	8.42	TD	10/26/2007
750	764731.5	981167.4	4.79	CLD	10/26/2007
751	764720.6	981185.4	8.74	TD	10/26/2007
752	764998.0	981294.1	13.14	TD	10/26/2007
753	764981.1	981324.4	12.32	TD	10/26/2007
754	764567.9	981308.8	9.38	TD	10/26/2007
755	764557.1	981308.0	6.87	CLD	10/26/2007
756	764548.8	981309.4	9.08	TD	10/26/2007
757	764606.6	981299.2	11.81	CL RR TRACK	10/26/2007
758	764645.7	981292.8	9.91	TD	10/26/2007
759	764656.2	981291.0	6.29	CLD	10/26/2007
760	764663.0	981292.3	9.09	TD	10/26/2007
761	764700.5	981486.7	11.07	TD	10/26/2007
762	764710.6	981482.7	8.77	CLD	10/26/2007
763	764716.9	981476.5	10.76	TD	10/26/2007
764	764621.8	981510.0	10.35	TD	10/26/2007
765	764610.9	981515.4	6.37	CLD	10/26/2007
766	764601.4	981519.2	9.72	TD	10/26/2007
767	764852.3	981681.3	14.34	CL RR TRACK	10/26/2007
768	765364.0	981766.8	14.19	SE	10/26/2007
769	765325.4	981676.7	13.55	SE	10/26/2007
770	765290.6	981657.9	13.21	SE	10/26/2007
771	765499.2	981747.5	14.53	CL RR TRACK	10/26/2007
772	765500.9	981654.9	13.99	SE	10/26/2007
773	765343.2	981498.9	11.85	TD	10/26/2007
774	765330.9	981518.4	11.93	TD	10/26/2007
775	764832.5	980659.3	9.63	IRF BENT	10/26/2007
776	764489.9	981108.6	10.78	IRF	10/26/2007
8000	765193.2	982113.2	12.07	SE	10/26/2007
8001	765210.0	982122.6	11.83	SE	10/26/2007
8002	765303.1	982024.4	14.9	SE	10/26/2007
8003	765272.0	982051.0	14.82	SE	10/26/2007
8004	765242.6	982076.1	13.86	SE	10/26/2007
8005	765214.5	982100.4	12.29	SE	10/26/2007
8006	765198.6	982117.5	12.08	SE	10/26/2007
8007	765227.5	982131.0	12.11	SE	10/26/2007
8008	765248.8	982106.6	12.24	SE	10/26/2007
8009	765270.2	982083.2	12.62	SE	10/26/2007
8010	765292.3	982059.8	13.82	SE	10/26/2007
8011	765314.6	982036.5	13.93	SE	10/26/2007
8012	765272.6	981985.7	15.56	SE	10/26/2007
8013	765245.0	982006.3	15.63	SE	10/26/2007
8014	765220.2	982028.1	14.75	SE	10/26/2007
8015	765195.4	982050.4	13	SE	10/26/2007
8016	765172.3	982071.4	12.5	SE	10/26/2007
8017	765152.1	982091.6	12.29	SE	10/26/2007
8018	765106.3	982066.1	11.98	SE	10/26/2007
8019	765130.8	982045.6	12.23	SE	10/26/2007
8020	765154.4	982023.5	12.73	SE	10/26/2007
8021	765177.9	982004.8	14.14	SE	10/26/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8022	765204.1	981982.7	14.89	SE	10/26/2007
8023	765224.2	981961.9	15.31	SE	10/26/2007
8024	765239.3	981941.5	14.08	SE	10/26/2007
8025	765186.4	981916.8	11.33	SE	10/26/2007
8026	765183.6	981932.7	13.68	SE	10/26/2007
8027	765169.5	981959.9	14.89	SE	10/26/2007
8028	765152.6	981986.0	13.93	SE	10/26/2007
8029	765135.3	982012.1	12.55	SE	10/26/2007
8030	765118.0	982036.0	12.11	SE	10/26/2007
8031	765098.7	982063.3	12.08	SE	10/26/2007
8032	765062.6	982043.3	11.86	SE	10/26/2007
8033	765088.6	982017.9	12.2	SE	10/26/2007
8034	765112.2	981996.3	12.53	SE	10/26/2007
8035	765157.1	981957.1	14.8	SE	10/26/2007
8036	765190.8	981923.6	12.98	SE	10/26/2007
8037	765149.1	981893.0	11.41	SE	10/26/2007
8038	765126.7	981921.0	13.26	SE	10/26/2007
8039	765109.1	981944.9	14.22	SE	10/26/2007
8040	765092.5	981970.0	13.19	SE	10/26/2007
8041	765068.9	982004.5	12.09	SE	10/26/2007
8042	765045.3	982034.4	12.01	SE	10/26/2007
8043	765009.6	982014.0	12.15	SE	10/26/2007
8044	765025.0	981985.2	12.35	SE	10/26/2007
8045	765042.3	981954.3	12.59	SE	10/26/2007
8046	765058.0	981922.4	14.27	SE	10/26/2007
8047	765066.6	981896.6	12.52	SE	10/26/2007
8048	765076.8	981869.5	11.25	SE	10/26/2007
8049	765041.8	981854.3	11.39	SE	10/26/2007
8050	765028.5	981881.6	12.39	SE	10/26/2007
8051	765013.2	981908.9	13.05	SE	10/26/2007
8052	764993.4	981937.9	11.5	SE	10/26/2007
8053	764979.1	981957.6	11.97	SE	10/26/2007
8054	764958.8	981987.6	11.9	SE	10/26/2007
8055	764917.0	981965.4	11.52	SE	10/26/2007
8056	764935.7	981938.0	12	SE	10/26/2007
8057	764961.1	981913.8	11.2	SE	10/26/2007
8058	764983.8	981888.8	12.73	SE	10/26/2007
8059	765000.3	981864.7	11.96	SE	10/26/2007
8060	765014.0	981840.7	11.54	SE	10/26/2007
8061	765013.1	981840.1	11.64	SE	10/26/2007
8062	764998.7	981863.5	11.95	SE	10/26/2007
8063	764983.0	981889.3	12.75	SE	10/26/2007
8064	764966.9	981915.1	11.65	SE	10/26/2007
8065	764949.1	981938.3	11.9	SE	10/26/2007
8066	764923.8	981968.8	11.43	SE	10/26/2007
8067	764891.4	981950.7	10.99	SE	10/26/2007
8068	764913.5	981923.3	11.92	SE	10/26/2007
8069	764927.8	981910.6	11.36	SE	10/26/2007
8070	764944.6	981894.2	11.09	SE	10/26/2007
8071	764968.7	981872.4	13.02	SE	10/26/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8072	764981.2	981853.0	11.81	SE	10/26/2007
8073	764992.7	981829.8	11.44	SE	10/26/2007
8074	764951.3	981802.8	10.9	SE	10/26/2007
8075	764932.2	981821.5	11.25	SE	10/26/2007
8076	764908.9	981842.8	10.71	SE	10/26/2007
8077	764886.1	981858.5	10.7	SE	10/26/2007
8078	764866.9	981874.1	11.15	SE	10/26/2007
8079	764847.0	981888.1	10.07	SE	10/26/2007
8080	764812.7	981860.8	9.83	SE	10/26/2007
8081	764836.7	981838.0	10.96	SE	10/26/2007
8082	764856.0	981822.3	10.27	SE	10/26/2007
8083	764878.2	981801.0	10.46	SE	10/26/2007
8084	764891.9	981789.8	10.6	SE	10/26/2007
8085	764910.1	981769.3	11.51	SE	10/26/2007
8086	764892.3	981756.2	11.53	SE	10/26/2007
8087	764867.3	981776.0	10.26	SE	10/26/2007
8088	764838.7	981801.3	10.08	SE	10/26/2007
8089	764631.5	980994.2	6.32	TOB	10/26/2007
8090	764627.8	980993.5	4.7	TOE	10/26/2007
8091	764626.7	980993.4	4.61	CL	10/26/2007
8092	764625.0	980993.9	4.87	TOE	10/26/2007
8093	764619.8	980994.5	7.36	TOB	10/26/2007
8094	764600.0	981028.3	7.91	TOB	10/26/2007
8095	764602.8	981030.4	4.36	TOE	10/26/2007
8096	764604.9	981030.6	4.45	CL	10/26/2007
8097	764606.6	981031.5	4.59	TOE	10/26/2007
8098	764610.1	981033.4	7.03	TOB	10/26/2007
8099	764608.9	981038.9	6.98	TOB	10/26/2007
8100	764604.6	981039.6	4.42	TOE	10/26/2007
8101	764602.7	981039.7	3.95	CL	10/26/2007
8102	764600.7	981040.2	3.98	TOE	10/26/2007
8103	764596.2	981040.3	8.45	TOB	10/26/2007
8104	764597.5	981047.8	9.03	TOB	10/26/2007
8105	764600.1	981053.0	8.57	TOB	10/26/2007
8106	764597.4	981057.5	9.04	TOB	10/26/2007
8107	764603.2	981057.1	5.27	TOB	10/26/2007
8108	764605.9	981049.8	4.69	TOE	10/26/2007
8109	764603.6	981045.5	4.6	TOE	10/26/2007
8110	764604.7	981044.5	4.19	CL	10/26/2007
8111	764608.1	981049.9	4.16	CL	10/26/2007
8112	764609.6	981047.8	4.28	TOE	10/26/2007
8113	764606.2	981043.6	4.51	TOE	10/26/2007
8114	764610.0	981041.7	6.53	TOB	10/26/2007
8115	764612.5	981045.2	6.32	TOB	10/26/2007
8116	764574.5	981152.8	7.09	TOB	10/26/2007
8117	764577.0	981143.1	7.29	TOB	10/26/2007
8118	764582.6	981141.8	6.81	TOB	10/26/2007
8119	764587.4	981145.8	6.81	TOB	10/26/2007
8120	764584.6	981159.6	7.17	TOB	10/26/2007
8121	764579.7	981158.5	4.53	TOE	10/26/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8122	764578.0	981157.6	4.21	CL	10/26/2007
8123	764575.4	981156.7	4.62	TOE	10/26/2007
8124	764580.9	981149.3	4.68	TOE	10/26/2007
8125	764581.2	981150.4	4.15	CL	10/26/2007
8126	764581.9	981150.5	5.86	60INRCPTOP	10/26/2007
8127	764562.9	981181.5	7.04	TOB	10/26/2007
8128	764566.8	981183.0	5.68	TOE	10/26/2007
8129	764568.6	981183.5	5.32	CL	10/26/2007
8130	764570.9	981183.6	5.73	TOE	10/26/2007
8131	764577.9	981185.5	7.64	TOB	10/26/2007
8132	764571.2	981222.5	7.9	TOB	10/26/2007
8133	764566.6	981222.5	5.55	TOE	10/26/2007
8134	764563.1	981221.6	5.07	CL	10/26/2007
8135	764560.5	981221.3	5.59	TOE	10/26/2007
8136	764555.9	981221.4	7.53	TOB	10/26/2007
8137	764551.6	981258.8	7.93	TOB	10/26/2007
8138	764556.4	981259.7	5.4	TOE	10/26/2007
8139	764559.8	981260.0	4.93	CL	10/26/2007
8140	764562.2	981259.9	5.13	TOE	10/26/2007
8141	764567.8	981260.9	8.67	TOB	10/26/2007
8142	764565.9	981343.8	9.89	TOB	10/26/2007
8143	764561.0	981347.4	10.16	TOB	10/26/2007
8144	764548.9	981348.6	9.99	TOB	10/26/2007
8145	764545.6	981338.6	8.73	TOB	10/26/2007
8146	764555.0	981335.8	6.24	TOE	10/26/2007
8147	764563.5	981334.0	5.95	TOE	10/26/2007
8148	764558.9	981335.5	5.43	CL DITCH	10/26/2007
8149	764559.2	981336.8	5.02	IE24"CIP	10/26/2007
8150	764551.0	981380.1	9.59	TOB	10/26/2007
8151	764560.0	981372.2	9.76	TOB	10/26/2007
8152	764576.2	981372.4	9.65	TOB	10/26/2007
8153	764566.4	981376.9	4.64	IE24"CIP	10/26/2007
8154	764570.0	981378.4	5.2	TOE	10/26/2007
8155	764561.5	981379.9	5.73	TOE	10/26/2007
8156	764565.8	981378.8	4.26	CL DITCH	10/26/2007
8157	765346.8	982010.0	13.78	SE	10/26/2007
8158	765328.3	982027.6	13.78	SE	10/26/2007
8159	765311.6	982045.8	13.72	SE	10/26/2007
8160	765304.5	982070.3	12.66	SE	10/26/2007
8161	765266.2	982102.0	11.92	SE	10/26/2007
8162	765280.6	982112.6	11.95	SE	10/26/2007
8163	765298.9	982140.1	11.5	SE	10/26/2007
8164	765286.6	982153.2	11.26	SE	10/26/2007
8165	765296.8	982161.8	10.98	SE	10/26/2007
8166	765313.6	982150.4	11.48	SE	10/26/2007
8167	765306.1	982175.9	10.01	SE	10/26/2007
8168	765329.4	982185.3	9.66	SE	10/26/2007
8169	765328.9	982147.7	11.26	SE	10/26/2007
8170	765309.9	982116.0	11.74	SE	10/26/2007
8171	765330.0	982102.2	12.44	SE	10/26/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8172	765317.9	982079.3	12.64	SE	10/26/2007
8173	765335.4	982051.8	12.65	SE	10/26/2007
8174	765355.1	982046.8	12.62	SE	10/26/2007
8175	765382.4	982032.0	11.97	SE	10/26/2007
8176	765362.1	982011.4	12.83	SE	10/26/2007
8177	765388.1	981984.8	13.06	SE	10/26/2007
8178	765408.4	981999.7	12.39	SE	10/26/2007
8179	765393.2	982012.4	12.21	SE	10/26/2007
8180	765430.0	981980.7	12.31	SE	10/26/2007
8181	765448.7	981961.4	12.42	SE	10/26/2007
8182	765423.4	981943.0	12.89	SE	10/26/2007
8183	765404.0	981962.5	13.05	SE	10/26/2007
8184	764558.5	981429.3	9.71	TOB	10/26/2007
8185	764569.6	981426.2	5.13	TOE	10/26/2007
8186	764578.7	981454.9	5.13	TOE	10/26/2007
8187	764570.6	981459.1	9.07	TOB	10/26/2007
8188	764587.8	981496.2	8.83	TOB	10/26/2007
8189	764596.5	981492.4	5.12	TOE	10/26/2007
8190	764611.8	981521.4	5.48	TOE	10/26/2007
8191	764605.7	981525.8	8.31	TOB	10/26/2007
8192	764614.7	981519.3	5.29	TOE	10/26/2007
8193	764624.2	981513.1	9.1	TOB	10/26/2007
8194	764607.6	981481.2	9.31	TOB	10/26/2007
8195	764597.8	981485.1	4.83	TOE	10/26/2007
8196	764586.4	981457.8	4.84	TOE	10/26/2007
8198	764596.9	981452.5	8.92	TOB	10/26/2007
8199	764584.0	981427.1	7.65	TOB	10/26/2007
8200	764576.1	981428.6	4.52	TOE	10/26/2007
8201	764643.1	981539.3	10.21	TOB	10/26/2007
8202	764632.0	981544.8	5.32	TOE	10/26/2007
8203	764628.2	981546.5	5.58	TOE	10/26/2007
8204	764629.6	981546.0	5.59	CL DITCH	10/26/2007
8205	764622.2	981550.5	8.48	TOB	10/26/2007
8206	764641.5	981576.2	8.41	TOB	10/26/2007
8207	764646.7	981572.1	6.21	TOE	10/26/2007
8208	764648.4	981570.5	5.9	CL	10/26/2007
8209	764651.0	981569.1	5.82	TOE	10/26/2007
8210	764658.8	981562.5	10.23	TOB	10/26/2007
8211	764680.2	981588.5	10.24	TOB	10/26/2007
8212	764671.2	981596.1	5.94	TOE	10/26/2007
8213	764670.0	981597.4	5.97	CL	10/26/2007
8214	764669.0	981598.4	6.15	TOE	10/26/2007
8215	764662.9	981603.4	8.61	TOB	10/26/2007
8216	764682.7	981626.9	8.89	TOB	10/26/2007
8217	764687.9	981621.4	6.37	TOE	10/26/2007
8218	764689.5	981620.2	6.06	CL DITCH	10/26/2007
8219	764691.5	981618.5	6.15	TOE	10/26/2007
8220	764700.3	981610.2	9.93	TOB	10/26/2007
8221	764721.8	981630.8	10.12	TOB	10/26/2007
8222	764713.2	981640.0	6.21	TOE	10/26/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8223	764712.0	981641.1	6.19	CL	10/26/2007
8224	764710.9	981641.9	6.22	TOE	10/26/2007
8225	764705.9	981649.0	9.06	TOB	10/26/2007
8226	764727.6	981667.6	9.08	TOB	10/26/2007
8227	764732.6	981662.2	6.45	TOE	10/26/2007
8228	764733.6	981661.5	6.33	CL	10/26/2007
8229	764735.4	981659.0	6.42	TOE	10/26/2007
8230	764743.5	981648.5	10.6	TOB	10/26/2007
8231	764781.9	981678.5	11.02	TOB	10/26/2007
8232	764775.4	981687.7	6.71	TOE	10/26/2007
8233	764774.2	981689.8	6.43	CL	10/26/2007
8234	764772.9	981691.8	6.58	TOE	10/26/2007
8235	764769.4	981697.3	8.91	TOB	10/26/2007
8236	764791.6	981714.0	8.98	TOB	10/26/2007
8237	764797.2	981709.3	6.86	TOE	10/26/2007
8238	764799.3	981707.3	6.7	CL DITCH INT	10/26/2007
8239	764802.0	981704.3	7.32	TOE	10/26/2007
8240	764808.8	981696.1	11.2	TOB	10/26/2007
8241	764853.9	981728.3	11.42	TOB	10/26/2007
8242	764846.4	981738.1	7.2	TOE	10/26/2007
8243	764844.9	981740.1	6.95	CL	10/26/2007
8244	764843.3	981742.1	7.2	TOE	10/26/2007
8245	764839.9	981745.8	9.25	TOB	10/26/2007
8246	764883.9	981780.9	10.19	TOB	10/26/2007
8247	764890.4	981775.1	7.19	TOE	10/26/2007
8248	764894.6	981777.6	7.31	CL	10/26/2007
8249	764896.6	981775.8	7.76	TOE	10/26/2007
8250	764901.6	981769.8	10.88	TOB	10/26/2007
8251	764944.7	981800.3	10.58	TOB	10/26/2007
8252	764941.1	981806.9	7.55	TOE	10/26/2007
8253	764939.8	981808.7	7.49	CL	10/26/2007
8254	764939.0	981809.7	7.87	TOE	10/26/2007
8255	764933.3	981815.6	10.68	TOB	10/26/2007
8256	764976.6	981847.2	11.44	TOB	10/26/2007
8257	764981.0	981840.4	8.14	TOE	10/26/2007
8258	764982.2	981839.0	8.09	CL	10/26/2007
8259	764983.4	981836.7	8.25	TOE	10/26/2007
8260	764986.6	981830.9	11.35	TOB	10/26/2007
8261	765029.8	981855.9	11.58	TOB	10/26/2007
8262	765025.8	981863.7	8.72	TOE	10/26/2007
8263	765024.9	981865.4	8.72	CL	10/26/2007
8264	765024.5	981866.6	9.13	TOE	10/26/2007
8265	765020.2	981872.7	11.83	TOB	10/26/2007
8266	765076.7	981895.0	12.19	TOB	10/26/2007
8267	765079.1	981888.3	9.87	TOE	10/26/2007
8268	765079.6	981886.3	9.67	CL	10/26/2007
8269	765080.8	981883.9	9.61	TOE	10/26/2007
8270	765083.0	981878.8	11	TOB	10/26/2007
8271	765144.3	981895.4	11.35	TOB	10/26/2007
8272	765142.6	981901.7	9.91	TOE	10/26/2007

Appendix A
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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8273	765141.0	981903.2	9.86	CL	10/26/2007
8274	765140.0	981904.9	10.07	TOE	10/26/2007
8275	765137.4	981910.1	11.88	TOB	10/26/2007
8276	765169.5	981917.1	12.34	TOB	10/26/2007
8277	765170.2	981910.7	10.11	TOE	10/26/2007
8278	765171.2	981908.3	10.02	CL	10/26/2007
8279	765171.3	981907.2	9.77	TOE	10/26/2007
8280	765172.2	981901.7	10.98	TOB	10/26/2007
8281	765238.8	981904.4	10.56	SE	10/26/2007
8282	765238.9	981914.8	10.84	SE	10/26/2007
8283	765239.8	981922.7	12.93	SE	10/26/2007
8284	765154.2	982029.8	12.05	TOB	10/26/2007
8285	765160.7	982036.5	11.77	TOB	10/26/2007
8286	765161.2	982041.8	11.58	TOB	10/26/2007
8287	765156.2	982044.0	11.87	TOB	10/26/2007
8288	765149.1	982041.9	11.9	TOB	10/26/2007
8289	765154.7	982038.0	10.72	TOE	10/26/2007
8290	765155.2	982036.5	10.65	CL	10/26/2007
8291	765155.6	982034.5	10.98	TOE	10/26/2007
8292	765109.7	982005.2	11.94	TOB	10/26/2007
8293	765107.1	982010.1	10.01	TOE	10/26/2007
8294	765106.7	982011.0	9.76	CL	10/26/2007
8295	765105.8	982012.5	9.89	TOE	10/26/2007
8296	765102.8	982018.2	11.77	TOB	10/26/2007
8297	765052.5	981995.4	12.03	TOB	10/26/2007
8298	765057.1	981988.0	9.5	TOE	10/26/2007
8299	765057.8	981986.6	9.43	CL	10/26/2007
8300	765058.5	981985.1	9.62	TOE	10/26/2007
8301	765061.0	981979.8	11.5	TOB	10/26/2007
8302	765019.0	981956.1	11.5	TOB	10/26/2007
8303	765015.7	981961.0	9.25	TOE	10/26/2007
8304	765014.4	981962.6	8.96	CL	10/26/2007
8305	765013.7	981964.2	9.05	TOE	10/26/2007
8306	765009.0	981971.5	11.84	TOB	10/26/2007
8307	764962.0	981947.5	11.91	TOB	10/26/2007
8308	764968.1	981939.2	8.62	TOE	10/26/2007
8309	764968.8	981937.7	8.62	CL	10/26/2007
8310	764969.8	981936.1	8.79	TOE	10/26/2007
8311	764972.5	981931.9	10.57	TOB	10/26/2007
8312	764935.5	981889.1	10.99	TOB	10/26/2007
8313	764930.9	981892.7	10.79	CHW	10/26/2007
8314	764929.9	981891.2	10.76	CHW	10/26/2007
8315	764925.3	981894.6	10.79	CHW	10/26/2007
8316	764926.4	981896.2	10.71	CHW	10/26/2007
8317	764922.8	981898.8	11.07	TOB	10/26/2007
8318	764928.1	981896.7	8.5	TOE	10/26/2007
8319	764928.8	981895.3	8.28	IE15"RCP	10/26/2007
8320	764929.5	981896.0	8.23	CL	10/26/2007
8321	764930.8	981895.1	8.3	TOE	10/26/2007
8322	764910.8	981857.1	10.64	TOB	10/26/2007

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Pt Num	Easting	Northing	Elevation (msl)	Designation	Date Collected
8323	764907.2	981860.0	10.7	CHW	10/26/2007
8324	764908.4	981861.5	10.68	CHW	10/26/2007
8325	764903.5	981864.9	10.68	CHW	10/26/2007
8326	764902.5	981863.4	10.71	CHW	10/26/2007
8327	764898.3	981866.7	10.88	TOB	10/26/2007
8328	764903.3	981862.0	7.92	TOE	10/26/2007
8329	764904.5	981861.4	8.28	IE15INRCP	10/26/2007
8330	764905.7	981860.5	8.01	TOE	10/26/2007
8331	764877.7	981803.6	10.32	TOB	10/26/2007
8332	764870.5	981807.8	7.67	TOE	10/26/2007
8333	764868.0	981809.2	7.21	CL	10/26/2007
8334	764866.9	981810.2	7.14	TOE	10/26/2007
8335	764861.2	981815.5	9.79	TOB	10/26/2007
8336	764825.0	981764.9	9.44	TOB	10/26/2007
8337	764831.8	981759.9	7.38	TOE	10/26/2007
8338	764833.6	981758.5	7.1	CL	10/26/2007
8339	764835.4	981757.2	7.34	TOE	10/26/2007
8340	764838.8	981753.1	9.17	TOB	10/26/2007
8341	764824.5	981735.0	8.33	TOB	10/26/2007
8342	764821.3	981731.2	7.8	TOB	10/26/2007
8343	764821.7	981729.8	7.79	TOB	10/26/2007
8344	764822.9	981729.1	7.89	TOB	10/26/2007
8345	764826.6	981731.7	8.26	TOB	10/26/2007
8346	764828.6	981729.3	6.9	TOE	10/26/2007
8347	764824.5	981726.4	6.96	TOE	10/26/2007
8348	764820.3	981725.1	6.9	TOE	10/26/2007
8349	764816.9	981726.0	7.04	TOE	10/26/2007
8350	764816.8	981729.5	7.11	TOE	10/26/2007
8351	764820.7	981737.0	6.96	TOE	10/26/2007
12009	764748.2	981399.9	11.04	ISB22	10/26/2007
12010	764706.6	981401.3	10.42	ISB15	10/26/2007
12011	764733.0	981433.4	10.42	ISB14	10/26/2007
12012	764763.5	981459.2	10.86	ISB19	10/26/2007
12013	764815.0	981472.1	12.18	ISB13	10/26/2007
12014	764858.9	981475.8	12.09	ISB23	10/26/2007
12015	764854.8	981497.4	11.88	ISB12	10/26/2007
12016	764823.5	981517.5	11.5	HA-07-02	10/26/2007
12017	764850.9	981550.8	11.72	ISB 18	10/26/2007
12018	764897.8	981525.8	12.58	ISB 11	10/26/2007
12019	764910.5	981586.5	12.49	ISB 17	10/26/2007
12020	764911.2	981606.1	12.24	HA-07-06	10/26/2007
12021	764879.2	981617.7	11.46	HA-07-03	10/26/2007
12022	764735.1	981354.7	10.96	ISB21	10/26/2007
12023	764708.6	981362.8	10.82	ISB20	10/26/2007
12024	764669.7	981355.9	10.79	ISB16	10/26/2007
12025	764656.1	981348.1	10.46	ISB24	10/26/2007
325	764859.0	981934.3	10.89	3/4IPF	11/1/2007
326	765383.1	981713.1	12.65	NLF7	11/1/2007
327	765513.7	981662.4	12.77	NLF8	11/1/2007
328	765433.5	981536.5	11.69	NLF9	11/1/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
329	765209.5	982107.8	12.17	STK 1067	11/1/2007
330	765247.0	982075.0	13.99	STK 1072	11/1/2007
331	765284.5	982042.0	14.97	STK 1082	11/1/2007
332	765251.5	982004.5	15.66	STK 1081	11/1/2007
333	765218.6	981966.8	15.29	STK 1080	11/1/2007
334	765185.5	981929.3	13.38	STK 1079	11/1/2007
335	765143.2	981900.1	10.29	STK 1078	11/1/2007
336	765082.0	981887.0	9.58	STK 1077	11/1/2007
337	764985.4	981839.1	7.96	STK 1060	11/1/2007
338	764942.8	981809.8	7.42	STK 1059	11/1/2007
339	764901.6	981779.5	7.65	STK 1058	11/1/2007
340	764878.7	981799.6	10.39	STK 1048	11/1/2007
341	764886.3	981859.6	10.79	STK 1028	11/1/2007
342	764855.2	981896.2	10.39	STK 1010/FL	11/1/2007
343	764859.2	981934.7	10.67	STK 1011/FL	11/1/2007
344	764947.9	981871.7	12.28	STK 1050	11/1/2007
345	765086.6	982016.2	12.2	STK 1054	11/1/2007
346	765110.6	981995.2	12.56	STK 1064	11/1/2007
347	765121.2	982052.4	12.21	STK 1055	11/1/2007
348	765143.4	982032.8	10.39	STK 1065	11/1/2007
349	765176.6	982070.2	12.62	STK 1066	11/1/2007
350	765430.5	981980.4	12.19	STK 1092	11/1/2007
351	765392.7	982013.3	12.13	STK 1091	11/1/2007
352	765355.2	982046.3	12.6	STK 1084	11/1/2007
353	765317.6	982079.3	12.65	STK 1083	11/1/2007
354	765280.2	982112.2	11.93	STK 1071	11/1/2007
355	765313.1	982149.8	11.33	STK 1070	11/1/2007
356	765305.6	982176.1	10.05	STK 1069 FL	11/1/2007
357	765329.2	982028.3	13.7	1085	11/1/2007
5044	764396.1	981358.6	6.59	SEWER	11/1/2007
5045	764469.3	981427.5	8.64	SEWER	11/1/2007
5046	764506.1	981461.6	9.07	SEWER	11/1/2007
5047	764542.8	981495.7	9.24	SEWER	11/1/2007
5048	764579.5	981530.6	9.14	SEWER	11/1/2007
5049	764615.9	981564.7	8.89	SEWER	11/1/2007
5050	764652.7	981598.9	8.74	SEWER	11/1/2007
5051	764689.5	981633.2	8.97	SEWER	11/1/2007
5052	764725.8	981668.0	9.18	SEWER	11/1/2007
5053	764761.6	981703.1	9.45	SEWER	11/1/2007
5054	764795.4	981739.0	9.23	SEWER	11/1/2007
5055	764830.9	981775.3	9.48	SEWER	11/1/2007
5056	764864.8	981811.2	8	SEWER	11/1/2007
5057	764900.0	981847.6	8.54	SEWER	11/1/2007
5058	764934.6	981883.4	11.18	SEWER	11/1/2007
5059	764969.1	981919.7	11.5	SEWER	11/1/2007
5060	765003.7	981955.8	8.87	SEWER	11/1/2007
5061	765038.7	981992.0	12.12	SEWER	11/1/2007
5062	765073.2	982028.1	12.15	SEWER	11/1/2007
5063	765107.6	982064.1	12.15	SEWER	11/1/2007
8352	765489.3	981662.5	12.5	SE	11/1/2007

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
8353	765503.2	981700.8	12.13	SE	11/1/2007
8354	765460.1	981733.9	11.36	SE	11/1/2007
8355	765444.4	981721.5	12.41	SE	11/1/2007
8356	765426.0	981692.5	12.42	SE	11/1/2007
8357	765376.8	981699.1	12.23	SE	11/1/2007
8358	765396.9	981718.3	12.78	SE	11/1/2007
8359	765409.2	981768.1	11.61	SE	11/1/2007
8360	765388.3	981778.5	11.58	SE	11/1/2007
8361	765367.4	981745.2	13.22	SE	11/1/2007
8362	765322.7	981704.5	12.52	SE	11/1/2007
8363	765289.5	981674.7	11.94	SE	11/1/2007
8364	765273.1	981687.6	12.36	SE	11/1/2007
8365	765323.3	981717.4	12.6	SE	11/1/2007
8366	765366.9	981761.4	13.43	SE	11/1/2007
8367	765381.8	981781.9	11.51	SE	11/1/2007
13100	764709.7	981334.7	10.51	ISB25	11/1/2007
13101	764750.0	981328.1	10.08	ISB25	11/1/2007
13102	764750.0	981328.0	10.08	HCITANK	11/1/2007
13103	764715.4	981303.0	10.07	HCITANK	11/1/2007
13104	764741.6	981366.6	10.76	HCLLOADING RACK	11/1/2007
13105	764737.0	981350.4	11.43	HCLLOADING RACK	11/1/2007
13106	764800.0	981351.0	10.95	HCLLOADING RACK	11/1/2007
13107	764907.7	981624.4	10.61	T88	11/1/2007
13108	765045.4	981741.5	11.14	HA-07-04	11/1/2007
13109	765034.4	981367.0	9.59	HA-07-01	11/1/2007
13110	765307.2	981688.9	12.31	STK H 1097	11/1/2007
13111	765382.8	981739.2	13.42	STK H 1103	11/1/2007
13112	765394.9	981712.9	12.74	STK H 1104	11/1/2007
13113	765433.4	981703.4	12.73	STK H 1105	11/1/2007
13114	765470.6	981660.7	11.85	STK H 1106	11/1/2007
13115	765500.2	981693.6	12.78	STK H 1107	11/1/2007
13116	765457.5	981730.9	11.16	STK H 1108	11/1/2007
13117	765407.3	981763.6	11.3	STK H 1110	11/1/2007
13118	764774.6	981387.2	11.05	ISB23	11/1/2007
1134	765229.3	982131.9	12.26	IRS	1/10/2008
10050	764253.4	981330.3	10.82	TIETO4000	1/10/2008
14000	764523.1	981417.1	10.81	WM-27	1/10/2008
14001	764523.4	981417.2	11.05	WM-27	1/10/2008
14002	764524.5	981417.0	10.95	WM-27	1/10/2008
14003	765029.5	981890.3	14.05	WM-21	1/10/2008
14004	765029.9	981890.1	14.32	WM-21	1/10/2008
14005	765031.0	981890.1	14.30	WM-21	1/10/2008
14006	765217.7	981973.1	16.68	WM-22	1/10/2008
14007	765218.0	981972.9	16.94	WM-22	1/10/2008
14008	765219.1	981972.2	16.81	WM-22	1/10/2008
14009	765217.9	982067.4	14.95	WM-22	1/10/2008
14010	765218.5	982067.4	15.29	WM-22	1/10/2008
14011	765219.7	982067.1	15.31	WM-22	1/10/2008
14012	765279.3	982002.5	17.17	WM-23	1/10/2008
14013	765279.8	982002.3	17.50	WM-23	1/10/2008

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<i>Pt Num</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation (msl)</i>	<i>Designation</i>	<i>Date Collected</i>
14014	765280.9	982002.0	17.35	WM-23	1/10/2008
14015	765390.8	981948.5	14.44	WM-24	1/10/2008
14016	765391.4	981948.5	14.79	WM-24	1/10/2008
14017	765392.3	981948.6	14.81	WM-24	1/10/2008
14018	765505.5	981829.5	12.89	WM-25	1/10/2008
14019	765506.0	981829.4	13.46	WM-25	1/10/2008
14020	765507.0	981829.1	13.40	WM-25	1/10/2008
14021	765566.1	981781.0	12.90	WM-26	1/10/2008
14022	765566.6	981781.0	13.51	WM-26	1/10/2008
14023	765567.8	981781.0	13.46	WM-26	1/10/2008
9002	765325.3	981708.2	12.23	---	11/23/2010
9003	765329.5	981701.2	12.13	---	11/23/2010
9004	765322.3	981694.4	12.05	---	11/23/2010
9005	765316.8	981701.8	12.22	---	11/23/2010

Appendix B

*Analytical Data – Reports
(Included in Separate Folder)*

*Included on CD Attached to
Back Cover of this Report*

Appendix C

Waste Disposal Information

*Included on CD Attached to
Back Cover of this Report*

Appendix D

Construction Photos



Photo 1: Site prior to excavation.



Photo 2: Site prior to excavation.



Photo 3: Excavation of area G.



Photo 4: Installed silt fence.



Photo 5: Erosion control installed at construction gate.



Photo 6: Dump trucks for soil removal



Photo 7: Clean backfill stockpile.



Photo 8: Excavation in area D.



Photo 9: Area D completed.



Photo 10: Excavation in area I.



Photo 11: Backfill in area I.



Photo 12: Area I restored.



Photo 13: Excavation in area C.



Photo 14: Backfill and restoration in area C.



Photo 15: Backfill in area E.



Photo 16: excavation in area A.



Photo 17: Restoration of area A.



Photo 18: Excavation of area B-SUP.



Photo 19: Backfill and restoration of area B-SUP.



Photo 20: Excavation in area F.



Photo 21: Backfill in area F.



Photo 22: MAECTITE® application in SP-F3



Photo 23: Final grade prior to seeding.



Photo 24: Restored excavation area.



Photo 25: 2010 Area D Excavation



Photo 26: 2010 Area D soil stockpiling



.Photo 27: 2010 Area D Excavation Preparation.



Photo 28: 2010 Area D during excavation.

Appendix E

Restrictive Covenant

AFTER RECORDING RETURN TO:
David M. Meezan
Alston & Bird LLP
1201 West Peachtree Street
Atlanta, Georgia 30309

DECLARATION OF RESTRICTIVE COVENANTS AND NOTICE

THIS DECLARATION is made this _____ day of _____, 2008, by **COLONIAL TERMINALS, INC.** a Georgia Corporation (hereinafter referred to as "Declarant").

WITNESSETH:

WHEREAS, Declarant owns the property depicted on Exhibit "A" hereto attached and made a part hereof (the "Type 5 Property"); and

WHEREAS, the Type 5 Property contains "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder and, accordingly, Declarant desires to restrict the use of the Type 5 Property as provided herein.

NOW, THEREFORE, Declarant does hereby subject the Type 5 Property to the covenants, restrictions, easements and rights hereinafter stated:

1. Definitions. For purposes of this Declaration, the following terms shall have the following meanings, unless the context requires otherwise:

"Colonial" shall mean Colonial Terminals, Inc., a Georgia corporation, its successors and assigns.

"Director" shall mean the Director of EPD, as hereinafter defined.

"EPD" shall mean the Georgia Department of Natural Resources, Environmental Protection Division, as well as any successor Georgia agency with responsibility for and jurisdiction over environmental matters.

"Regulated Substances" shall have the same meaning as under HSRA, as hereinafter defined.

"HSRA" shall mean the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*

2. Restrictive Covenants. Declarant hereby declares the following with respect to the Type 5 Property:

(a) the use or extraction of groundwater beneath the Type 5 Property for drinking water or for any other non-remedial purpose shall be prohibited;

(b) any residential use on the Type 5 Property shall be prohibited;

(c) the excavation, construction, utility installation or maintenance, and similar land disturbing activities in soil on the Type 5 Property, both above and below the water table, shall be prohibited except in accordance with Section 7.2.1.1.4 of the EPD-approved Corrective Action Plan, Inspection/Maintenance Plan, and Excavation Policy dated November 4, 2008 (See Attachment 1), as may be modified or updated from time to time; and

(d) permanent markers on each side of the Property shall be installed and maintained that delineate the restricted area and prohibits the disturbance or removal of such markers.

The foregoing restrictions and covenants are made in accordance with Ga. Comp. R. & Regs. 391-3-19-.08(7) as those measures necessary to avoid interference with a remedial action, operation and maintenance, long term monitoring, or other measures to ensure the integrity of any remedial action. The foregoing are hereinafter collectively referred to as the "Restrictive Covenants."

3. Improvements. Any and all improvements located in whole or in part on all or any portion of the Type 5 Property, and the construction, operation, use and maintenance of the Type 5 Property and such improvements, shall be subject to and shall comply with the Restrictive Covenants.

4. Covenants running with the land. Declarant acknowledges and agrees that the Restrictive Covenants are appurtenant to and run with the land, and shall be binding and enforceable against all future owners of the Type 5 Property including Declarant, its successors and assigns. Should a transfer or sale of the Type 5 Property occur before such time as the Restrictive Covenants have been amended or revoked then said restrictive

Covenants shall be binding on the transferee(s) or purchaser(s). The selling or conveying party shall thereafter have no obligations or liabilities under this

Declaration of Restrictive Covenants and Notice accruing after the date of such transfer or sale of the Type 5 Property and the purchaser at any such sale (or the party to whom any such transfer is made) shall, by accepting title to the Type 5 Property, be deemed to have assumed the obligations of the selling or conveying party under this Declaration of Restrictive Covenants and Notice arising from and after the date of such sale or conveyance.

The Restrictive Covenants shall inure to the benefit of EPD. Colonial and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns and Colonial or its successors and assigns in a court of competent jurisdiction. The Restrictive Covenants shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Type 5 Property meets the applicable Risk Reduction Standards, as defined in Ga. Comp. R. & Regs. Chapter 391-3-19-.07, whereupon the Restrictive Covenants may be amended or revoked in accordance with Ga. Comp. R. & Regs. 391-3-19-.08(7)

5. Severability. In the event that any of the provisions contained in this Declaration shall for any reason be held to be invalid, illegal or unenforceable in any respect in a final ruling or judgment of a court of competent jurisdiction from which no appeal has been or can be taken, the remainder of the Restrictive Covenants shall not be affected thereby and each term, covenant, condition and provision hereof shall remain valid and enforceable to the fullest extent permitted by law.

6. Statutory Notice. The Type 5 Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this property. This notice is provided in compliance with the Georgia Hazardous Site Response Act. This Declaration is made in accordance with EPD-approved Corrective Action, Inspection/Maintenance Plan, and Excavation Policy Plan dated November 4, 2008 (See Attachment 1).

7. General Provisions.

(a) Headings. The use of headings, captions and numbers in this Declaration is solely for the convenience of identifying and indexing the various provisions in this Declaration and shall in no event be considered otherwise in construing or interpreting any provision in this Declaration.

(b) Non-Waiver. Failure by any party to complain of any action, non-action or breach of any other party shall not constitute a waiver of any aggrieved party's rights hereunder. Waiver by any party of any right arising from any breach of any other party shall not constitute a waiver of any other right arising from a subsequent breach of the same obligation or for any other default, past, present or future.

(c) Applicable Law. This Declaration shall be governed by, construed under and interpreted and enforced in accordance with the laws of the State of Georgia.

IN WITNESS WHEREOF, Declarant has signed and sealed this Declaration, all the day, month, and year first above written.

Signed, sealed and delivered
In the presence of:

DECLARANT:
COLONIAL TERMINALS, INC.
a Georgia corporation

Unofficial Witness

By: _____

Name: _____

Notary Public

Title: _____
(CORPORATE SEAL)

(NOTARY SEAL)

My Commission Expires:

Attachment 1
Excavation Policy

Excavation Policy for Type 4 and Type 5 Areas
Colonial Terminals Plant 2
Savannah, Chatham County, Georgia
HSI No. 10098
November 4, 2008

Background

Historical site practices resulted in the deposition of arsenic and lead in soils at the Colonial Terminals Plant 2 Site. This policy prescribes procedures that are to be followed whenever soil is excavated in certain areas of Plant No. 2 that have been classified as Type 4 and Type 5 areas under the Georgia Hazardous Site Response Act (HSRA) because of arsenic and lead.

This policy also details procedures for any groundwater extraction that might be associated with construction/excavation projects. Procedures are necessary to comply with Georgia Environmental Protection Division (EPD) regulations for managing contaminated soil or groundwater, and to comply with OSHA requirements for protecting worker health. This policy applies to projects performed either by Colonial personnel or outside contractors.

Site specific Risk Reduction Standards (RRS) were calculated for the surface (0-2 feet) and subsurface (> 2 feet) intervals and approved by EPD. Surface RRS values were calculated as 38.1 milligrams per kilogram (mg/kg) for arsenic and 930 mg/kg for lead. Subsurface RRS values were calculated as 326 mg/kg for arsenic and 1526 mg/kg for lead.

Locations at Plant 2 where soils with arsenic and lead are known to exist, that exceed EPD-approved RRS, are shown on the attached figure. They are generally in isolated areas under the circular railroad tracks or in an area along the banks of the Savannah River and adjacent to the Rensselaer Iron and Steel property. Based on information collected in the HSRA Compliance Status Report (CSR) investigation phase, no soils are known to exceed applicable OSHA exposure limits.

The Type 4 Area is shown on the attached figure. Soils exceeding applicable RRS were removed to a depth of 2 feet below ground surface (bgs) to prevent exposure via direct contact. Soils exceeding applicable RRS remain in place at depths below 2 feet bgs. Colonial Terminals has agreed to conduct long term post verification monitoring of groundwater to ensure that the soil left in place will not impact groundwater. Signs with instructions to contact the Environmental Health and

Safety (EHS) department prior to excavating have been installed around the perimeter of the Type 4 Area.

The Type 5 areas are shown on the attached figure. Soils exceeding EPD-approved RRS have been left in place. Engineering controls (placement of railroad ballast) on site soils to prevent direct contact have been implemented. Signs with instructions not to excavate have been installed at approximate 200-foot intervals around the perimeter of each Type 5 area. It is understood that in emergency situations, excavation in the Type 5 areas may be required.

In order to confirm that required signage and controls are maintained as required by EPD, Colonial will conduct annual inspections to evaluate the status of the Type 5 areas. A checklist to be used during the inspections is provided in a separate Appendix to the CSR.

Type 4 Area Procedures

Pre-excavation Procedures

The following steps will be undertaken prior to excavating soil in any of the Type 4 areas shown in the attached figure.

1. Contact Colonial EHS Department to identify any protective measures to be taken during excavation activities to ensure worker protection. Excavations that do not extend to 2 feet bgs and do not encounter groundwater may not require an excavation plan since soil from 0-2 feet was removed from this area and replaced with clean fill material.
2. Submit a brief excavation plan for excavations, as required showing where any planned excavation will occur and how deep the excavation will be. Each plan should include a sketch showing the location. The plan should also include estimated quantities and procedures for segregating surface soil (0 to 2 feet deep) from subsurface soil (>2 feet deep). The plan will describe any groundwater extraction anticipated (e.g., for a well point system).
3. The EHS Department will arrange to have soil samples collected from subsurface soil and a groundwater sample collected at locations where soil is to be excavated. Soil and groundwater will be sampled in accordance with EPD requirements. Samples will be analyzed for arsenic and lead by a laboratory certified in the State of Georgia for these metals.
- 4a. If soil sample results are less than the applicable, EPD-approved Risk Reduction Standards for the site, then the soil excavated may be used as backfill. If groundwater results are less than the applicable site specific risk

reduction standards, then groundwater can be extracted and discharged without EHS constraints.

- 4b. In the event that one or more soil concentrations are greater than the EPD-approved site specific Risk Reduction Standards, then that soil will be excavated and disposed of properly. TCLP results may be necessary to determine proper disposition of the soil. Clean soil will be used for backfill in the excavated area. All excavated soils must be disposed of at an appropriate off site disposal facility and may not be used as subsurface backfill, as previously stated in the April 21, 2006 EPD Corrective Action Plan approval letter.

In the event the groundwater concentration is above site specific RRS, the groundwater will be discharged to our storm drainage systems or to an approved wastewater treatment system as necessary. Contaminated groundwater will be managed properly pursuant to local, state, and federal regulation and that all necessary permits will be acquired for discharge of impacted groundwater to storm drainage systems or an approved wastewater treatment system.

5. The EHS Department will provide further guidance on PPE and HAZWOPER training that may be necessary to conduct the excavation if the soils concentrations or groundwater concentrations exceed applicable OSHA worker exposure concentrations.

Type 5 Area Procedures

Pre-excavation Procedures

The following steps will be undertaken prior to excavating soil in any of the Type 5 areas shown in the attached figure.

1. Contact Colonial EHS Department to identify any protective measures to be taken during excavation activities to ensure worker protection.
2. Submit a brief excavation plan showing where any planned excavation will occur and how deep the excavation will be. Each plan should include a sketch showing the location. The plan should also include estimated quantities and procedures for segregating surface soil (0 to 2 feet deep) from subsurface soil (>2 feet deep). The plan will describe any groundwater extraction anticipated (e.g., for a well point system).
3. The EHS Department will arrange to have soil samples and a groundwater sample collected at locations where soil is to be excavated. Soil and groundwater will be sampled in accordance with EPD requirements. Samples will be analyzed for arsenic and lead by a laboratory certified in

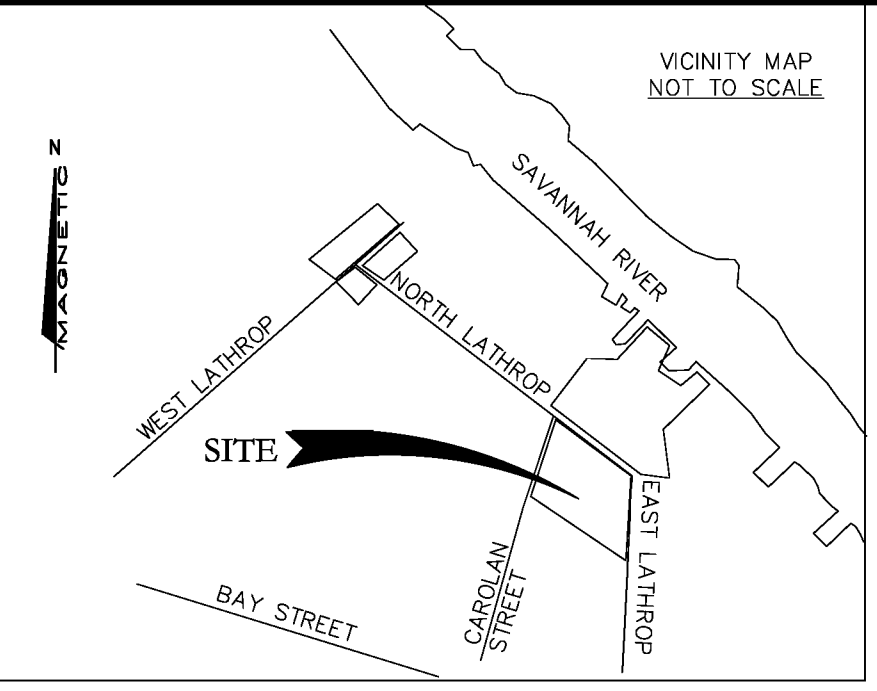
the State of Georgia for these metals.

- 4a. If soil sample results are less than EPD-approved site RRS, then the soil excavated may be used as backfill. If groundwater results are less than site specific RRS, then groundwater can be extracted and discharged without EHS constraints.
- 4b. In the event that one or more soil concentrations are greater than the applicable site specific RRS, then that soil will be excavated and disposed of properly. TCLP results may be necessary to determine proper disposition of the soil. Clean soil will be used for backfill in the excavated area. All excavated soils must be disposed of at an appropriate off site disposal facility and may not be used as subsurface backfill, as previously stated in the April 21, 2006 EPD Corrective Action Plan approval letter.

In the event the groundwater concentration is above applicable site specific Risk Reduction Standards, the groundwater will be discharged to our storm drainage systems or to an approved wastewater treatment system as necessary.

5. The EHS Department will provide further guidance on PPE and HAZWOPER training that may be necessary to conduct the excavation if the soils concentrations or groundwater concentrations exceed applicable OSHA worker exposure concentrations.
6. At the completion of excavation activities, ballast must be placed on the excavated area to prevent direct contact with soil and ensure compliance with engineering control requirements for Type 5 areas.

Attachment 2
Drawing and Legal Description of
Type 4 and Type 5 Areas of the Site



CURVE	LENGTH	RADIUS	TANGENT	DELTA	BEARING	CHORD
C1	388.65'	467.65'	206.34'	47°37'02"	S60°06'51"W	377.56'
C2	313.59'	386.11'	166.02'	46°32'04"	N59°34'22"E	305.04'
C3	555.14'	381.34'	339.81'	83°24'29"	N05°23'55"W	507.40'
C4	237.58'	596.78'	120.38'	22°48'34"	S35°46'20"E	236.01'
C5	489.00'	461.78'	270.24'	60°40'23"	S05°58'08"W	466.47'

LINE	BEARING	DISTANCE
L1	N50°48'07"E	112.19'
L2	S46°32'36"E	72.94'
L3	S43°16'47"E	49.36'
L4	S48°14'35"E	54.77'
L5	S50°01'56"E	32.10'
L6	S75°43'00"E	42.37'
L7	N87°28'26"E	41.69'
L8	S58°52'23"E	14.33'
L9	S28°25'47"W	544.53'
L10	S84°34'29"W	40.78'
L11	N89°07'37"W	119.13'
L12	N50°23'32"W	33.14'
L13	N59°41'43"W	90.58'
L14	N30°17'51"E	130.09'
L15	S60°37'34"E	46.72'
L16	S30°12'20"W	29.57'
L17	S62°01'44"E	43.87'
L18	S30°18'17"W	103.07'

LEGEND

- IRF IRON ROD FOUND
- ✕ XF "X" IN CONCRETE FOUND
- POINT

TYPE 5 AREA
LEGAL DESCRIPTION AREA #1 (RAILROAD SPUR)

ALL THAT CERTAIN TRACT OF LAND BEING KNOWN AS AREA #1 OF THE COLONIAL TERMINALS PROPERTY, 1ST G.M. DISTRICT, CITY OF SAVANNAH, CHATHAM COUNTY, STATE OF GEORGIA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCING AT AN "X" FOUND AT THE EASTERN PROPERTY LINE OF SAVANNAH STEEL TERMINALS LLC THENCE N89°07'37"W A DISTANCE OF 119.13' TO AN IRON ROD FOUND; THENCE N50°23'32"W A DISTANCE OF 33.14' TO AN IRON ROD FOUND BEING THE POINT OF BEGINNING; THENCE S36°18'20"W A DISTANCE OF 145.14' TO A POINT; THENCE ALONG A CURVE TO THE RIGHT HAVING A RADIUS OF 467.65', AN ARC LENGTH 388.65', AN INTERIOR ANGLE OF 47°37'02", A TANGENT LENGTH OF 206.34', A CHORD BEARING OF S60°06'51"W AND A CHORD LENGTH OF 377.56' TO AN IRON ROD FOUND; THENCE N00°58'06"W A DISTANCE OF 81.93' TO AN IRON ROD FOUND; THENCE WITH A CURVE THENCE ALONG A CURVE TO THE LEFT HAVING A RADIUS OF 386.11', AN ARC LENGTH 313.59', AN INTERIOR ANGLE OF 46°32'04", A TANGENT LENGTH OF 166.02', A CHORD BEARING OF N59°34'22"E AND A CHORD LENGTH OF 305.04' TO AN IRON PIPE; THENCE N36°18'20"E A DISTANCE OF 238.69' TO AN IRON PIPE; THENCE WITH A CURVE THENCE ALONG A CURVE TO THE LEFT HAVING A RADIUS OF 381.34', AN ARC LENGTH 555.14', AN INTERIOR ANGLE OF 83°24'29", A TANGENT LENGTH OF 339.81', A CHORD BEARING OF N05°23'55"W AND A CHORD LENGTH OF 507.40' TO AN IRON ROD FOUND; THENCE N15°21'29"E A DISTANCE OF 114.85' TO AN IRON ROD FOUND; THENCE WITH A CURVE THENCE ALONG A CURVE TO THE RIGHT HAVING A RADIUS OF 596.78', AN ARC LENGTH 237.58', AN INTERIOR ANGLE OF 22°48'34", A TANGENT LENGTH OF 120.38', A CHORD BEARING OF S35°46'20"E AND A CHORD LENGTH OF 236.01' TO AN IRON ROD FOUND; THENCE ALONG A CURVE TO THE THENCE ALONG A CURVE TO THE RIGHT HAVING A RADIUS OF 461.78', AN ARC LENGTH 489.00', AN INTERIOR ANGLE OF 60°40'23", A TANGENT LENGTH OF 270.24', A CHORD BEARING OF S05°58'08"W AND A CHORD LENGTH OF 466.47' TO A POINT; THENCE S36°18'20"W A DISTANCE OF 104.41' TO THE POINT OF BEGINNING; AND CONTAINING 2.424 ACRES.

EQUIPMENT USED: ELECTRONIC TOTAL STATION
ANGULAR ERROR PER "Δ" = 04"
ADJUSTED BY COMPASS RULE:
PLAT ERROR OF CLOSURE: 1/900,000+
FIELD ERROR OF CLOSURE: 1/10,000+

REFERENCE:

1. PLAT RECORD BOOK 27-P, PAGE 10.
2. CHATHAM COUNTY PARCEL IDENTIFICATION NUMBER 1-0549 -01-002.

NOTES:

1. THIS PROPERTY BOUNDARY IS A COMPILATION OF PLATS DRAWN BY OTHERS AND IS NOT THE PRODUCT OF A COMPLETE BOUNDARY SURVEY PERFORMED BY KERN-COLEMAN & COMPANY.
2. THE HORIZONTAL DATUM OF THIS PLAT IS BASED ON GRID NORTH, GEORGIA STATE STATE PLANE, EAST ZONE, NAD 83.
3. THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE PERSON OR ENTITIES NAMED HEREON. NO EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE INFORMATION SHOWN HEREON IS TO BE EXTENDED TO ANY PERSONS OR ENTITIES OTHER THAN THOSE SHOWN HEREON.
4. IN PROVIDING THIS BOUNDARY SURVEY NO ATTEMPT HAS BEEN MADE TO OBTAIN OR SHOW DATA CONCERNING EXISTENCE, SIZE, DEPTH, CONDITION, CAPACITY OR LOCATION OF ANY UTILITY EXISTING ON THE SITE, WHETHER PRIVATE, MUNICIPAL OR PUBLIC OWNED.
5. THIS PLAT DOES NOT REPRESENT A LAND SURVEY AND IS UNSUITABLE FOR DEEDING OF PROPERTY OR RECORDATION.
6. BASED ON MY OBSERVATION A PORTION OF THIS PROPERTY IS LOCATED IN ZONE AE, A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP NUMBER 13051C0155F, EFFECTIVE DATE: SEPTEMBER 26, 2008, BASE FLOOD ELEVATION: 11', NAVD 88.
7. THE VERTICAL EXTENT OF THE TYPE 5 AREAS EXTENDS FROM THE GROUND SURFACE TO THE GROUNDWATER TABLE. THE VERTICAL EXTENT OF THE TYPE 4 AREAS EXTENDS FROM 2 FEET BELOW THE EXISTING GROUND SURFACE TO THE GROUNDWATER TABLE.

N/V COLONIAL TERMINALS INC.
1288±

ZONE AE
11' BFE (NAVD 88)

ZONE X

APPROXIMATE LOCATION OF FLOOD HAZARD LINE

AREA #1 (RAILROAD SPUR)
2.424 ACRES

AREA #2 (OPEN AREA)
2.820 ACRES

TYPE 4 AREA

LEGAL DESCRIPTION AREA #2 (OPEN AREA)

ALL THAT CERTAIN TRACT OF LAND BEING KNOWN AS AREA #2 OF THE COLONIAL TERMINALS PROPERTY, 1ST G.M. DISTRICT, CITY OF SAVANNAH, CHATHAM COUNTY, STATE OF GEORGIA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
BEGINNING AT AN "X" FOUND AT THE EASTERN PROPERTY LINE OF SAVANNAH STEEL TERMINALS LLC THENCE N89°07'37"W A DISTANCE OF 119.13' TO AN IRON ROD FOUND; THENCE N50°23'32"W A DISTANCE OF 33.14' TO AN IRON ROD FOUND; THENCE N36°18'20"E A DISTANCE OF 104.41' TO A POINT; THENCE ALONG A CURVE TO THE LEFT HAVING A RADIUS OF 461.78', AN ARC LENGTH 489.00', AN INTERIOR ANGLE OF 60°40'23", A TANGENT LENGTH OF 270.24', A CHORD BEARING OF N05°58'08"E AND A CHORD LENGTH OF 466.47' TO AN IRON ROD FOUND; THENCE N50°48'07"E A DISTANCE OF 112.19' TO AN IRON ROD FOUND; THENCE ALONG THE TOP OF BANK OF THE SAVANNAH RIVER S46°32'36"E A DISTANCE OF 72.94' TO A POINT; THENCE S43°16'47"E A DISTANCE OF 49.36' TO A POINT; THENCE S48°14'35"E A DISTANCE OF 54.77' TO A POINT; THENCE S50°01'56"E A DISTANCE OF 32.10' TO A POINT; THENCE S75°43'00"E A DISTANCE OF 42.37' TO A POINT; THENCE N87°28'26"E A DISTANCE OF 41.69' TO A POINT; THENCE S58°52'23"E A DISTANCE OF 14.33' TO A POINT; THENCE ALONG THE EASTERN PROPERTY S28°25'47"W A DISTANCE OF 544.53' TO AN IRON ROD FOUND; THENCE S84°34'29"W A DISTANCE OF 40.78' TO THE POINT OF BEGINNING; AND CONTAINING 2.820 ACRES.

TYPE 5 AREA

LEGAL DESCRIPTION AREA #3 (TRAIN LOADING)

ALL THAT CERTAIN TRACT OF LAND BEING KNOWN AS AREA #3 OF THE COLONIAL TERMINALS PROPERTY, 1ST G.M. DISTRICT, CITY OF SAVANNAH, CHATHAM COUNTY, STATE OF GEORGIA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCING AT AN "X" FOUND AT THE EASTERN PROPERTY LINE OF SAVANNAH STEEL TERMINALS LLC THENCE N89°07'37"W A DISTANCE OF 119.13' TO AN IRON ROD FOUND; THENCE N50°23'32"W A DISTANCE OF 33.14' TO AN IRON ROD FOUND; THENCE ALONG A TIE LINE N11°34'27"W A DISTANCE OF 448.12' TO AN IRON ROD FOUND BEING THE POINT OF BEGINNING; THENCE N59°41'43"W A DISTANCE OF 90.58' TO AN IRON ROD FOUND; THENCE N30°17'51"E A DISTANCE OF 130.09' TO AN IRON ROD FOUND; THENCE S60°37'34"E A DISTANCE OF 46.72' TO AN IRON ROD FOUND; THENCE S30°12'20"W A DISTANCE OF 29.57' TO AN IRON ROD FOUND; THENCE S62°01'44"E A DISTANCE OF 43.87' TO AN IRON ROD FOUND; THENCE S30°18'17"W A DISTANCE OF 103.07' TO AN IRON ROD FOUND; THENCE S30°18'17"W A DISTANCE OF 103.07' TO THE POINT OF BEGINNING; AND CONTAINING 0.243 ACRES.



Kern-Coleman & Co. LLC.
Consulting Engineers • Land Surveyors • Land Planners
Architects • Landscape Architects • Environmental Scientists
7 Mail Court, 31406 • P.O. Box 15179 • Savannah, Georgia 31416
Telephone: (912) 354-8400 • Fax: (912) 356-1865 • E-mail: info@kerncoleman.com

AN EXHIBIT OF THREE AREAS OF COLONIAL TERMINALS PROPERTY 1ST G.M. DISTRICT, CITY OF SAVANNAH, CHATHAM COUNTY, STATE OF GEORGIA
PREPARED FOR: ERM - REMEDIATION & CONSTRUCTION MANAGEMENT

DRAWING TITLE:

EXHIBIT

SCALE: 1"=100'
PROJECT NO: 080452
DATE: 6/30/2010
DRAWN BY: JBT
CHECKED BY: MDF
SHEET NO:

1/1

Appendix F

Long Term Inspection & Maintenance Plan

SITE USE AND TYPE 4 & 5 RRS ANNUAL INSPECTION FORM

Colonial Terminals Plant 2, HIS Site No. 10098

TYPE	No.	CRITERIA RESPONSE	YES	NO
Land Use	1	Does this HSRA site meet the definition of non-residential property as defined in HSRA Rule 391-3-19.02(2)? "Non-residential property means any property or portion of a property not currently being used for human habitation or for other purposes with a similar potential for human exposure, at which activities have been or are being conducted that can be categorized in one of the 1987 Standard Industrial Classifications major group..."		
	1a	If no to 1, provide a written explanation (attached) to the EPD within 30 days.		
	2	Is there evidence of usage of site groundwater for any purposes other than monitoring?		
	2a	If yes to 2, provide a written explanation (attached) to the EPD within 30 days.		
	3	Have construction/site modification activities been conducted in any of the designated Type 5 areas?		
	3a	If yes to 3, were the impacted soils from these areas removed in accordance with the approved Excavation Policy for the site?		
Exposure	4	Are site workers expected to be directly exposed to soils with chemical concentrations in excess of Type 3/4 RRS at the HSRA site in excess of 250 days per year?		
	4a	If yes to 4, are the same site workers expected to be exposed to soils at this HSRA site in excess of 25 years throughout their career?		
	5	Is there ground cover of stone, ballast, or other acceptable material present over the extent of the designated Type 5 areas to prevent exposure to surface soils exceeding the Type 3 and/or Type 4 RRS?		
	5a	If no to 5, are corrective measuring being taken, please explain (attached)?		
Erosion	6	Is there evidence of soil erosion in the designated Type 5 areas or erosion in excess of 2-feet in the Type 4 remedial areas requiring Long Term Performance Verification Monitoring at the site?		
	6a	If yes to 6, is there evidence of erosion of these soils to off-site areas?		
	6b	If yes to 6a, are corrective measures being taken?		
	6c	If yes to 4, 6, 6a, and/or 6b, provide written explanation to the EPD within 30 days.		
Institutional Controls	7	Is the Restrictive Covenant and associated deed restrictions for the site legally viable and the stipulations of which being accurately maintained?		
	7a	If no to 7, provide a written explanation (attached) to the EPD within 30 days.		
	8	Are the permanent markers and signage with instructions not to excavate being maintained at every 200-ft intervals around the perimeter of each applicable Type 4 and Type 5 area?		
	8a	If no to 8, please provide written explanation (attached) to the EPD within 30 days.		
	9	Is the groundwater performance monitoring network being maintained and routinely sampled in accordance with the approved Corrective Action Plan?		
	9a	If no to 9, please provide written explanation (attached) to the EPD within 30 days.		
Inspection	10	Date of inspection:		
	10a	Name of inspector:		
	10b	Photographs showing current land use (attached)		

APPENDIX E
Responses to GA
EPD Comments
(Environ,
November 10,
2014)

November 10, 2014

Via Email

Mr. Kevin Collins
Compliance Officer
Response and Remediation Program
2 Martin Luther King Jr. Drive, S.E.
Suite 1462, East Tower
Atlanta, Georgia 30334

**Re: Response to Georgia EPD's Comments Dated September 23, 2014
Colonial Terminals Plant #2, HSI No. 10098
Savannah, Chatham County, Georgia**

Dear Kevin:

On behalf of the Responsible Parties (RPs; Colonial Terminals, Inc. [Colonial], ExxonMobil Corporation, and Swift Agricultural Chemicals Corporation [now BFEL Indemnitor, Inc.]), ENVIRON International Corporation (ENVIRON) has prepared this letter in response to the Georgia Environmental Protection Division's (EPD's) September 23, 2014, comments on the following reports:

- May 30, 2014, Semi-Annual Progress Report No.2;
- September 6, 2013, "Response to GA EPD's Comments on the November 2012 VRP Application;"
- December 2, 2013, Semi-Annual Progress Report No. 1; and,
- April 9, 2013, SVE Status Report and Discontinuation of SVE System.

The comments provided by EPD are stated and addressed individually below.

- 1) According to the above referenced VRP documents, existing site data was utilized in a geostatistical modeling approach (Kriging) to predict the extent of free phase source material within the groundwater at the site. Please note that EPD will require additional time in order to evaluate the conclusions associated with the CTech EVS Pro geostatistical model, as EPD does not have equivalent geostatistical software at our disposal. Actions are being taken to acquire equivalent software, which should allow us to complete our evaluation prior to the next semi-annual report submittal. Even though EPD has not concurred with the projected extent of free phase source material, we would recommend that the next Progress Report include the proposal(s) for the remedial action(s) associated with the identified source material(s).

RESPONSE: The potential source material investigation was conducted per EPD's request and involved the analysis of new data obtained through the sampling of an extended network of existing site monitoring wells in December 2013, and the installation and sampling of two new deep monitoring wells in April 2014, followed by the referenced geostatistical modeling (Kriging). The geostatistical model that was used is C Tech Corporation's EVS-PRO, a USEPA-approved

software¹ that uses autocorrelation (i.e., the statistical relationship among measured points) and allows for characterization of uncertainty in the predictions. The use of this specific software was discussed with EPD during our October 2013 meeting, at which time we offered to work with EPD in any way to assist EPD's ability to evaluate our conclusions pertaining to the extent of potential source material in the groundwater. We reiterated our offer of assistance repeatedly during the ensuing 12 months, and do so again here. Specifically, we will meet with EPD in person, by webinar, or any other desired forum to discuss the EVS-PRO software, the inputs and parameters that were used to develop the model for the site, and run the model in 'real-time' for EPD. With regard to acquiring equivalent software, Colonial is concerned that this will only lead to further points of discussion at considerable expense and loss of time without concurrent benefit.

Regarding EPD's request for "proposal(s) for the remedial action(s) associated with the identified source material(s)," the proposed remedial action is monitoring only followed by no further action. This is based on the finding that exposure to groundwater is not a complete pathway. This was described in the November 2012 VRP Application and in subsequent submittals, and was agreed upon by EPD in our October 2013 meeting. Colonial also submitted a letter in July 2014 reiterating that position, hoping that that you would acknowledge that in future correspondence.

Therefore, as provided for in previously submitted documents, groundwater sampling will be conducted in the fourth quarter of 2014, and surface water sampling will continue on a semi-annual basis through the second quarter of 2016 (i.e., a total of 3 years). An environmental covenant will be executed for the site in conformance with O.C.G.A. 44-61-1 et seq. (the Georgia Uniform Environmental Covenants Act) that will specify that the land use of the site will remain non-residential/ industrial and that no drinking water wells will be installed on the site.

- 2) According to the 2013-2014 semi-annual reports for the site, the surface water samples continue to be collected a significant distance from the bank of the river. Please note that the data provided within the above referenced VRP documents is not sufficient to demonstrate these sample locations provide data representative of the conditions of surface water at the most probable point of shallow groundwater discharge to the Savannah River. Therefore, EPD continues to request that future surface water samples are collected in close proximity to the bank of the river during normal river flow conditions.

RESPONSE: Future surface water samples will be collected from walkways to the main dock, as close to the river bank as possible based on tide conditions and slopes of the river bottom at the time of sampling. The samples will be collected approximately 1.5 feet above the bottom of the river bank at those points where the water depth is no more than approximately four feet deep.

- 3) According to the 2013 Response, an updated Tax Parcel Location Map was to be included with the November 2013 VRP Progress Report with tax parcel information and property owner information for the abutting properties, and any "right-of-way" easements that are listed in the Appendix A Legal Description and Warranty Deed information for the site. Please include this updated figure in the next semi-annual progress report submittal.

RESPONSE: The updated Tax Parcel Location Map will be included in the November 2014 Semi-Annual Progress Report. Please note that the figures in the previous progress reports have

¹ As provided in Appendix B of the November 2013 Semi-Annual Progress Report. USEPA, Office of Research and Development. 2000. Environmental Technology Verification Report: Environmental Decision Support Software – C Tech Development Corporation Environmental Visualization System Pro (EVS-PRO).

included the updated property owner information for the abutting properties as well as the appropriate easements.

Area Averaging & Risk Reduction Standards (RRS) Comments:

- 4) Pursuant to the VRP Act, the UEC, and per discussions between EPD and site representatives during the October 1, 2013, meeting, EPD is willing to accept the proposition that the site will not meet residential/non-residential compliance standards for soils greater than 2-feet below ground surface based on leaching potential in consideration of a proposed Type 5 compliance standard for soil greater than 2-feet by demonstrating that the concentrations leached into the groundwater will not result in an impact to the point of exposure, i.e. the Savannah River. EPD will defer concurrence with the Type 5 compliance standard until the demonstration of surface water conditions is complete.

RESPONSE: Thank you; the comment is noted.

- 5) According to the above referenced VRP documents, UCL's were calculated to estimate "more representative exposure point concentrations (EPC)" to demonstrate compliance with a proposed Type 5 area averaging approach for a single exposure domain (ED) encompassing the entire site. Colonial also indicated that an area averaging approach will be used not only for surface soils, but also for subsurface soils (2-10 feet below ground surface). EPD concurs with the proposed ED for surface soils, however, please note that area averaging should not be applied to subsurface soils as the exposure scenarios to subsurface soils, and resulting cleanup criteria, are not based on random exposure to these soils over the entire ED but rather specific exposure scenarios such as construction/utility worker and leaching based determinations. Therefore, please ensure that the subsurface data set is removed from the area averaging calculations, and that a not to exceed value is utilized for these subsurface soils. Please note that corrective action associated with subsurface soil exceedances, as long as the cleanup value is not a leaching based value dependent upon protection of a groundwater/surface water receptor, can typically be addressed through the site specific Uniform Environmental Covenant (UEC).

RESPONSE: We disagree with the comment that area averaging should not be applied to subsurface soils. In fact, the VRP is very explicit about allowing the use of area averaging to develop a representative concentration, regardless of soil horizon (see excerpts from the VRP Act below). Further, we point out that the hypothetical future scenarios that might be associated with exposure to subsurface soils at the site are no less random than those with surface soil.

From O.C.G.A. §12-8-102 through §12-8-108:

- *Representative exposure concentrations.* Compliance with site-specific cleanup standards shall be determined on the basis of representative concentrations of constituents of concern in soils across each applicable soil exposure domain;
- "Representative concentration" means the average concentration to which a specified receptor is exposed over an exposure duration within a relevant exposure domain for soils or at an established or estimated point of exposure for groundwater and consistent with United States Environmental Protection Agency guidance for determination of average exposure concentration; and,

- “Exposure domain” means the contaminated geographical area or areas of a site that can result in exposure to a particular receptor by a specified exposure pathway...the soil exposure domain for exposure of construction workers or underground utility workers is the impacted area of site soils from the ground surface down to the depth of construction.”

Based on this information, area averaging will be used to develop representative concentrations for the purpose of demonstrating compliance with site-specific cleanup standards. However, based on the comment, we conducted a refined exposure evaluation for utility and construction workers (i.e., the receptors expected to be exposed to subsurface soil). First, we compared all the data collected from ground surface to 10 feet below ground surface with the appropriate Type 4 RRS (which were calculated using exposure frequencies of 5 days per year and 90 days per year for utility workers and construction workers, respectively, per Comment #7; see **Attachment A** for the revised RRS). Of these data, only arsenic and lead concentrations in ten samples from nine locations exceeded the Type 4 RRS for construction or utility workers.

The 10 subsurface soil samples that were associated with exceedances of the Type 4 RRS, presented in **Table 1**, were from one of the three historical excavation areas at the site – Area A (in the southeastern corner of the site near the drainage easement), Area B (in the northeastern corner of the site near the drainage easement), or Area C (a small area on the northern portion of the site near the concrete dock), as shown on **Figure 1**. Therefore, consistent with using area averaging for developing representative exposure concentrations, 95 percent upper confidence limits on the mean (95% UCLs) were developed for arsenic and lead for Areas A, B, and C, and compared to the appropriate Type 4 RRS. The 95% UCLs are shown on **Table 2**, and the results of the comparison document that there are no exceedances of the Type 4 RRS. As such, corrective action for soil is not warranted.

The data used for developing the UCLs and the ProUCL outputs are provided in **Attachment B**.

- 6) As supporting documentation for the use of a single ED, please provide EPD with a soil sampling rationale to demonstrate that a sufficient amount of surface soil samples have been, or will be, collected in order to develop a data set that is representative of the entire ED for all of the constituents of concern. Please note that based on the locations of the soil samples illustrated in Figure 5 of the November 2013 Report, many of the locations are concentrated in and around previously established impact areas and not randomly distributed throughout the ED.

RESPONSE: First, we note with appreciation that EPD concurs with the use of a single exposure domain for surface soil (Comment #5).

As stated in the comment, the sampling and resultant data associated with the surface soil at the site was biased towards areas of known contamination. As such, the available surface soil data is conservatively biased with respect to representing the entire ED for the constituents of concern. If more samples were collected from other areas of the site, especially if collected in a truly random manner, the resulting representative exposure concentration would be less than the representative exposure concentration that was presented previously. In addition, the number of surface soil samples that were collected for the constituents of concern, 122 for arsenic and 119 for lead, is quite large considering the relatively limited areas of the site where the impacts have been observed (conservatively estimated at no more than 2 acres). On this basis, the current data set for

surface soil is considered sufficient to represent the entire ED for all the constituents of concern in a conservative manner.

- 7) Based on the placement of a site related UEC and pursuant to the discussions between EPD and site representatives during the October 1, 2013, meeting, EPD concurs that an evaluation of a trespasser receptor is not required at this time. However, EPD recommends that specific language be added to the text that states a trespasser scenario was not evaluated due to the risk of other receptors, such as the commercial /industrial worker being protective of this receptor scenario. As for the commercial/industrial worker, utility worker and construction worker evaluation, the exposure frequencies for these receptors should be 250 days/year, 5 days/year, and 90 days/year respectively.

RESPONSE: The November 2014 Semi-Annual Progress Report will indicate that a trespasser scenario was not quantitatively evaluated because the commercial/industrial worker exposure scenario is considered protective of a trespasser. In addition, the Type 4 RRS for soil based on a construction worker exposure scenario were revised using an exposure frequency of 90 days per year (**Attachment A**); exposure frequencies of 250 days/year and 5 days/year were already used for the commercial/industrial worker and utility worker receptors, respectively.

If you have any questions about the comment responses, please feel free to contact me at your convenience.

Sincerely,



Jeff Margolin, RHSP
Principal
678-388-1644
jmargolin@environcorp.com

Enclosures

cc: David Brownlee (EPD)
Derrick Williams (EPD)
Jim Baker (Colonial Terminals)
Tom Dolan (Colonial Terminals)
Chris Aupperle (BFEL)
Michael Skinner (Michael J. Skinner Consulting)

Tables

**Table 1 - Subsurface Soil Exceedances of Type 4 RRS
Colonial Terminals (HSI No. 10098)
Savannah, Georgia**

Exposure Domain	Sample ID	Arsenic	Lead
		(Type 4 CW RRS = 260)	(Type 4 CW RRS = 3,500)
Area "A" (0.60 acres)	A5-Floor (5 ft bgs)	280	670
	Station 21+00 (6 – 8 ft bgs)	306	3,000
Area "B" (2.17 acres)	B-SB-48 (2 – 5 ft bgs)	600	17,000
	B-SB-53 (2 – 5 ft bgs)	690	5,600
	SB-28 (3 – 5 ft bgs)	850	2,000
	SB-28 (6 – 8 ft bgs)	300	150
	SB-37 (3 – 5 ft bgs)	140	8,600
	Station 12+00 (6 – 8 ft bgs)	619	3,390
Area "C" (0.73 acres)	SB-44 (6 – 8 ft bgs)	310	--
Rail Tracks (Type 5 RRS)	SB-56 (4 – 6 ft bgs)	270	3,200

Notes:

All units are in milligrams per kilogram (mg/kg)

Exceedances of the Type 4 RRS are **in bold**

CW -- Construction Worker

RRS -- Risk Reduction Standard

**Table 2 - 95% UCLs by Exposure Domain
Colonial Terminals (HSI No. 10098)
Savannah, Georgia**

Exposure Domain	Arsenic (Type 4 CW RRS = 260)	Lead (Type 4 CW RRS = 3,500)
Area "A"	131	1,164
Area "B"	153	2,305
Area "C"	102	492

Notes:

All units are in milligrams per kilogram (mg/kg)

CW -- Construction Worker

RRS -- Risk Reduction Standard

UCL -- Upper Confidence Limit

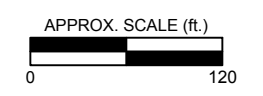
Figure



Exposure Domain	Area (sq. ft.)
A	26152.54
B	94640.85
C	31687.12

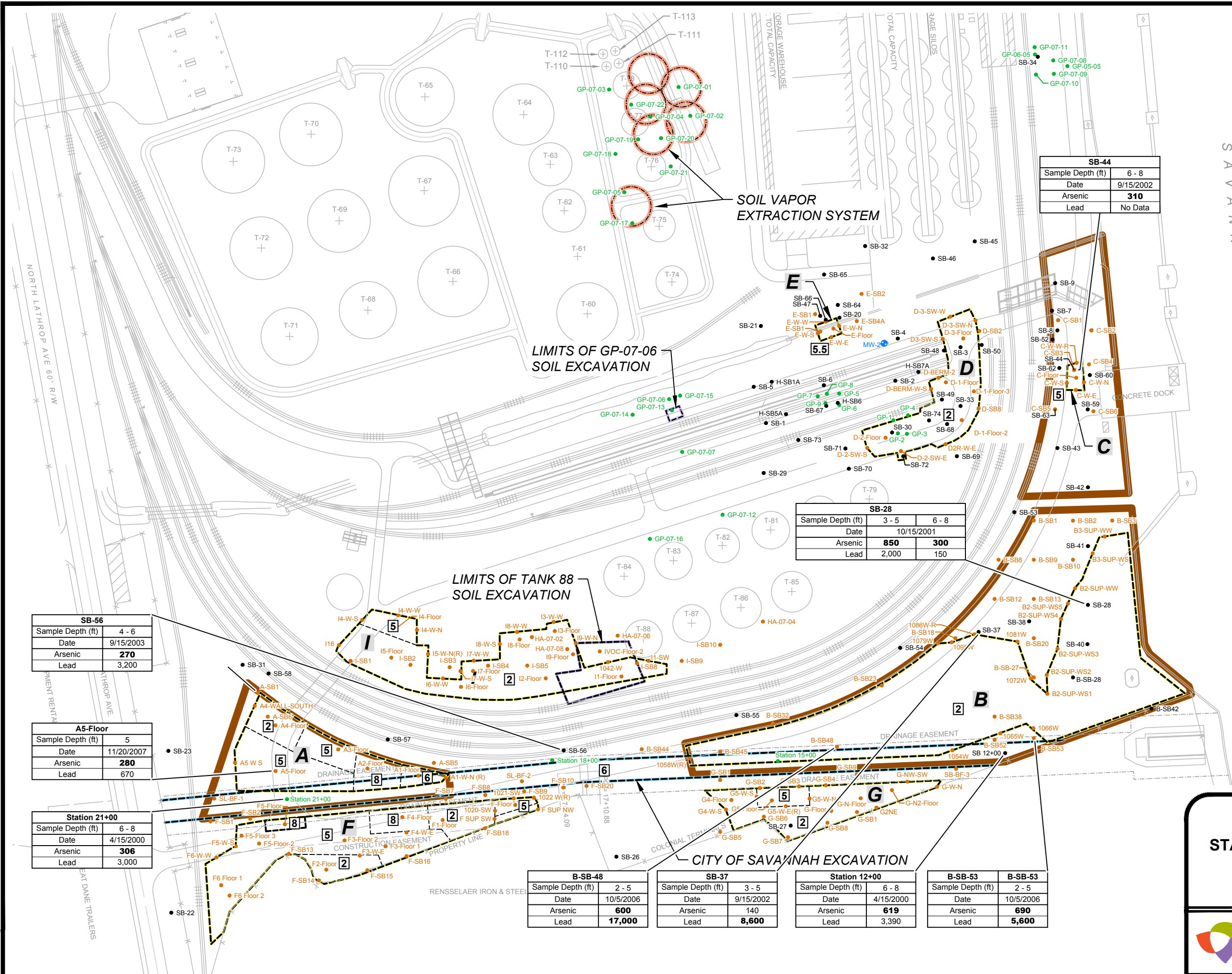
LEGEND	
	EXCAVATION AREA - METALS
	EXCAVATION AREA - VOCs
	EXCAVATION AREA - CITY OF SAVANNAH
	EXPOSURE DOMAIN AREA
	EXCAVATION DEPTH (FEET BELOW GROUND SURFACE)
	SOIL BORING
	CONFIRMATION SOIL SAMPLE
	GEOPROBE LOCATION
	MONITORING WELL

Type 4 RRS for Arsenic = 260 mg/kg
 Type 4 RRS for Lead = 3,500 mg/kg
Bold = concentration exceeds the Type 4 RRS



EXCEEDANCES OF TYPE 4 RISK REDUCTION STANDARDS - SUBSURFACE SOIL
 COLONIAL TERMINALS, INC.
 373 N. LATHROP AVENUE
 SAVANNAH, GEORGIA

	FIGURE
	1
DRAFTED BY: APR	DATE: 10/28/14
	0730114F



SB-44	
Sample Depth (ft)	6 - 8
Date	9/15/2002
Arsenic	310
Lead	No Data

SB-28	
Sample Depth (ft)	3 - 5 6 - 8
Date	10/15/2001
Arsenic	850 300
Lead	2,000 150

SB-56	
Sample Depth (ft)	4 - 6
Date	9/15/2003
Arsenic	270
Lead	3,200

A5-Floor	
Sample Depth (ft)	5
Date	11/20/2007
Arsenic	280
Lead	670

Station 21+00	
Sample Depth (ft)	6 - 8
Date	4/15/2000
Arsenic	306
Lead	3,000

B-SB-48	
Sample Depth (ft)	2 - 5
Date	10/5/2006
Arsenic	600
Lead	17,000

SB-37	
Sample Depth (ft)	3 - 5
Date	9/15/2002
Arsenic	140
Lead	8,600

Station 12+00	
Sample Depth (ft)	6 - 8
Date	4/15/2000
Arsenic	619
Lead	3,390

B-SB-53	
Sample Depth (ft)	2 - 5
Date	10/5/2006
Arsenic	690
Lead	5,600

L:\100_CAD FILES\07\Colonial Term Status Reports 0730114\F2014-10\01_Exceedances of Type 4 RRS - Subsurface Soil.dwg

Sources: Environmental Resources Management, Drawing 1, Site Layout Map, Revised Cap for VOCs, for Colonial Terminals, Inc., December 2008 and drawing 6-1, Confirmation Sample Locations, Colonial Terminals, HSI Site #10098, February 2011.



Attachment A
Type 4 Risk Reduction Standards for Construction Worker

**Table A.1 - Soil Types 3 and 4 Risk Reduction Standards (0 - 10 feet below ground surface) - Construction Worker
Colonial Terminals - HSI No. 10098
Savannah, Georgia**

Detected Regulated Substance	Maximum Concentration Detected from 2-10 ft (mg/kg)	Soil Type 3 RRS (mg/kg)	Source of Surface Soil Type 3	Soil Type 4 RRS Construction Worker (mg/kg)	Source of Type 4 Standard
1,1-Dichloroethene	3.8	0.7	T1 GWx100	680	RBC
cis-1,2-Dichloroethene	0.66	7	T1 GWx100	1,700	RBC
trans-1,2-Dichloroethene	0	10	T1 GWx100	640	RBC
Methylene Chloride	32	0.5	T1 GWx100	2,600	RBC
Tetrachloroethene	400	0.5	T1 GWx100	400	RBC
Trichloroethene	19	0.5	T1 GWx100	19	RBC
Vinyl Chloride	0.0086	0.2	T1 GWx100	220	RBC
2,4-Dinitrotoluene	460	1	T1 GWx100	1,700	RBC
Antimony	29	10	NC	340	RBC
Arsenic	850	38	PRGc-Ind	260	RBC
Barium	176	1,000	A-III	170,000	RBC
Beryllium	0.7	3	NC	1,700	RBC
Cadmium	4.95	39	NC	860	RBC
Chromium (total)	69	1,200	NC	1,200	NC
Chromium III	69	3,100,000	PRGnc-Ind	3,100,000	PRGnc-Ind
Chromium VI	69	110	PRGc-Ind	1,200	RBC
Copper	1,910	1,500	NC	34,000	RBC
Lead	17,000	400	NC	3,500	GALM
Mercury	15.4	17	NC	86	RBC
Nickel	25	420	NC	17,000	RBC
Silver	6.21	10	NC	4,300	RBC
Thallium	0.29	10	NC	10	RBC
Zinc	3,400	2,800	NC	260,000	RBC

BOLD Risk Reduction Standard exceeded.
 GALM Georgia Adult Lead Model
 NC Notification Criteria
 RBC Risk Based Concentration
 T1 GW x 100 Type 1 Groundwater RRS x 100

**Table A.3 - Georgia Adult Lead Model
Colonial Terminals - HSI No. 10098
Savannah, Georgia**

$$PbB = \frac{PbB_{fetal}}{R \times GSD^{1.645}} \quad C_s = \left[\frac{PbB - PbB_b}{BSF \times \frac{EF}{AT}} - (C_W \times I_W \times A_W) \right] \times [I_S \times A_S]^{-1}$$

		Construction Worker	Industrial Worker	Utility Worker
PbBb	= Typical blood lead concentration in adults, specifically women of child-bearing age, in the absence of exposures to the site that is being assessed (µg/dL) [baseline]	1.38	1.38	1.38
PbBfetal	= The blood lead goal for the unborn fetus, defined as the concentration which will have a 95% probability of not being exceeded (µg/dL)	10	10	10
GSD	= Geometric standard deviation of blood lead concentration among the exposed adult population, specifically women of child-bearing age (unitless)	2.04	2.04	2.04
R	= Constant of proportionality between fetal blood lead concentration at birth and maternal blood lead concentration (unitless)	0.9	0.9	0.9
BSF	= Biokinetic slope factor relating (quasi-steady state) increase in typical adult blood lead concentration to average daily lead uptake (µg/dL per µg/day)	0.4	0.4	0.4
EF	= Exposure frequency for contact with assessed soils and/or dust derived in part from these soils (number of days of exposure during the year) (days/yr)	90	219	5
AT	= Averaging time for continuing long term exposures (days/yr)	365	365	365
I _s	= Intake rate of soil, predominantly occupational exposures to indoor soil-derived dust rather than outdoor soil (unitless)	0.05	0.05	0.05
A _s	= Absolute gastrointestinal absorption fraction for ingested lead in soil and in dust derived from soil (unitless)	0.12	0.12	0.12
C _w	= Concentration of lead in ground water at site (µg/L); provided, however, when taken together with concentrations of lead in soil shall not exceed a PbB of 10 µg/dL	15	15	15
I _w	= Intake rate of water from on-site groundwater (L/day)	0.01	1	0.01
A _w	= Absolute gastrointestinal absorption fraction for ingested lead in drinking water (unitless)	0.2	0.2	0.2
PbB	= Average adult blood level that is protective of the fetus	3.44	3.44	3.44
C_s	= Soil target concentration; i.e., concentration of lead in soil that is goal for the site	3,500	930	63,000



Attachment B
ProUCL Inputs and Outputs

**Table B-1 - Soil Data for UCL Calculations
Colonial Terminals Plant #2 (HSI No. 10098)
Savannah, Georgia**

Sample Location	Depth (feet)	Arsenic (mg/kg)	Lead (mg/kg)
Exposure Domain A			
A1-W-N (R)	0-2	4.7	31
A4-Wall South	0-2	7	560
A5-W-S	0-2	25	430
SL-BF-1	1-1	7.7	50
A-SB-1	0-2	88	390
A-SB-5	0-2	37	550
Station 21+00	6-8	306	3,000
A1-Floor	6-6	100	82
A2-Floor	8-8	85	41
A3-Floor	5-5	120	550
A4-Floor	2-2	69	1,000
A5-Floor	5-5	280	670
A-SB-5	2-5	36	240
A-SB-6	2-5	35	600
UCLs for Exposure Domain A:		131	1,164
Exposure Domain B			
1054W	0-2	34	350
1058W-S-R	0-2	9	56
1065W	0-2	19	160
1066W	0-2	2.3	51
1072-W	0-2	6.2	57
1079W	0-2	9.3	82
1081W	0-2	23	180
1086W-R	0-2	25	120
1095W	0-2	15	140
B2-SUP-WS1	0-2	11	220
B2-SUP-WS2	0-2	7.9	55
B2-SUP-WS3	0-2	18	170
B2-SUP-WS4	0-2	23	330
B2-SUP-WS5-R	0-2	17	130
B2-SUP-WW	0-2	31	310
B3-SUP-WS	0-2	5.9	200
B3-SUP-WW	0-2	8.4	100
SB-53	0-2	1	5.5
SL-BF-3	1-1	2.5	25
B-SB-1	0-2	5.9	74
B-SB-10	0-2	13	140
B-SB-12	0-2	17	89
B-SB-13	0-2	29	200
B-SB-18	0-2	64	720
B-SB-2	0-2	19	260

**Table B-1 - Soil Data for UCL Calculations
Colonial Terminals Plant #2 (HSI No. 10098)
Savannah, Georgia**

Sample Location	Depth (feet)	Arsenic (mg/kg)	Lead (mg/kg)
B-SB-20	0-2	51	240
B-SB-27	0-2	48	530
B-SB-3	0-2	23	640
B-SB-3 DUP	0-2	4.5	14
B-SB-42	0-2	14	150
B-SB-52	0-2	15	700
B-SB-53	0-2	11	160
B-SB-8	0-2	9.3	120
B-SB-9	0-2	37	440
SB-28	3-5	850	2,000
SB-28	6-8	300	150
SB-32	3-5	3.9	9.2
SB-37	3-5	140	8,600
SB-38	3-5	65	960
SB-38	5-6.5	220	3,700
SB-40	3-5	48	1,100
SB-41	3-5	24	1,700
SB-41	5-7	67	27
SL-BF-3	4-4	1.7	5.1
Station 12+00	6-8	619	3,390
Station 15+00	10.5-10.5	10.3	68.9
B-SB-3	2-5	13	17
B-SB-8	2-5	33	17
B-SB-13DUP	2-5	20	390
B-SB-18	2-5	19	200
B-SB-23DUP	2-5	95	2,100
B-SB-28	2-5	250	1,000
B-SB-38 DUP	2-5	110	1,300
B-SB-48 DUP	2-5	600	17,000
B-SB-53 DUP	2-5	690	5,600
G-SB-1	2-5	3.9	17
G-SB-9	2-5	240	340
UCLs for Exposure Domain B:		153	2,305
Exposure Domain C			
SB-7	0.5-1.5	2.3	23
SB-8	0.5-1.5	89	230
SB-9	0.5-1.5	13	430
SB-52	0-2	54	840
C-SB-1	0-2	32	180
C-SB-4	0-2	7.5	35
C-SB-5	0-2	3.9	12
C-SB-6	0-2	9.5	75

**Table B-1 - Soil Data for UCL Calculations
Colonial Terminals Plant #2 (HSI No. 10098)
Savannah, Georgia**

Sample Location	Depth (feet)	Arsenic (mg/kg)	Lead (mg/kg)
C-Floor	5.5-5.5	55	250
C-W-E	2-5	7.1	98
C-W-N	2-5	42	420
C-W-S	2-5	120	1,300
C-W-W (R)	2-5	20	13
SB-7	3.5-5.5	22	68
SB-8	3.5-5.5	15	19
SB-9	3.5-5.5	33	410
SB-42	3-5	20	15
SB-42	5.5-7	11	8.6
SB-43	3-5	5.4	No Data
SB-43	6-8	4.9	No Data
SB-44	6-8	310	No Data
SB-52	4-6	12	28
SB-59	3-5	31	230
SB-59	6-8	1.5	7.5
SB-60	3-5	75	580
SB-60	6-8	4.8	5.9
SB-62	3-5	8.3	180
SB-63	3-5	1	2.9
C-SB-1	2-5	160	94
C-SB-1	5-8	230	1,800
C-SB-3	5-8	110	800
C-SB-4	2-5	130	1,800
C-SB-4	5-8	18	160
C-SB-5	2-5	5.1	69
C-SB-5	5-8	9.7	150
C-SB-6	2-5	3.6	36
C-SB-6	5-8	3.1	35
UCLs for Exposure Domain C:		102	492

Area "A"

	A	B	C	D	E	F	G	H	I	J	K	L		
1	UCL Statistics for Uncensored Full Data Sets													
2														
3	User Selected Options													
4	Date/Time of Computation		10/28/2014 10:43:06 AM											
5	From File		WorkSheet.xls											
6	Full Precision		OFF											
7	Confidence Coefficient		95%											
8	Number of Bootstrap Operations		5000											
9														
10														
11	Area A Arsenic (0-10')													
12														
13	General Statistics													
14	Total Number of Observations				14		Number of Distinct Observations				14			
15					Number of Missing Observations				0					
16	Minimum				4.7		Mean				85.74			
17	Maximum				306		Median				53			
18	SD				95.23		Std. Error of Mean				25.45			
19	Coefficient of Variation				1.111		Skewness				1.659			
20														
21	Normal GOF Test													
22	Shapiro Wilk Test Statistic				0.768		Shapiro Wilk GOF Test							
23	5% Shapiro Wilk Critical Value				0.874		Data Not Normal at 5% Significance Level							
24	Lilliefors Test Statistic				0.226		Lilliefors GOF Test							
25	5% Lilliefors Critical Value				0.237		Data appear Normal at 5% Significance Level							
26	Data appear Approximate Normal at 5% Significance Level													
27														
28	Assuming Normal Distribution													
29	95% Normal UCL						95% UCLs (Adjusted for Skewness)							
30	95% Student's-t UCL				130.8		95% Adjusted-CLT UCL (Chen-1995)				139.7			
31									95% Modified-t UCL (Johnson-1978)				132.7	
32														
33	Gamma GOF Test													
34	A-D Test Statistic				0.312		Anderson-Darling Gamma GOF Test							
35	5% A-D Critical Value				0.764		Detected data appear Gamma Distributed at 5% Significance Level							
36	K-S Test Statistic				0.132		Kolmogrov-Smirnoff Gamma GOF Test							
37	5% K-S Critical Value				0.236		Detected data appear Gamma Distributed at 5% Significance Level							
38	Detected data appear Gamma Distributed at 5% Significance Level													
39														
40	Gamma Statistics													
41	k hat (MLE)				0.916		k star (bias corrected MLE)				0.768			
42	Theta hat (MLE)				93.56		Theta star (bias corrected MLE)				111.7			
43	nu hat (MLE)				25.66		nu star (bias corrected)				21.5			
44	MLE Mean (bias corrected)				85.74		MLE Sd (bias corrected)				97.86			
45									Approximate Chi Square Value (0.05)				11.96	
46	Adjusted Level of Significance				0.0312		Adjusted Chi Square Value				11.03			
47														
48	Assuming Gamma Distribution													
49	95% Approximate Gamma UCL (use when n>=50)				154.1		95% Adjusted Gamma UCL (use when n<50)				167.2			
50														

Area "A"

	A	B	C	D	E	F	G	H	I	J	K	L
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic					0.942	Shapiro Wilk Lognormal GOF Test					
53	5% Shapiro Wilk Critical Value					0.874	Data appear Lognormal at 5% Significance Level					
54	Lilliefors Test Statistic					0.135	Lilliefors Lognormal GOF Test					
55	5% Lilliefors Critical Value					0.237	Data appear Lognormal at 5% Significance Level					
56	Data appear Lognormal at 5% Significance Level											
57												
58	Lognormal Statistics											
59	Minimum of Logged Data					1.548	Mean of logged Data					3.815
60	Maximum of Logged Data					5.724	SD of logged Data					1.296
61												
62	Assuming Lognormal Distribution											
63	95% H-UCL					345.1	90% Chebyshev (MVUE) UCL					205.9
64	95% Chebyshev (MVUE) UCL					256	97.5% Chebyshev (MVUE) UCL					325.4
65	99% Chebyshev (MVUE) UCL					461.9						
66												
67	Nonparametric Distribution Free UCL Statistics											
68	Data appear to follow a Discernible Distribution at 5% Significance Level											
69												
70	Nonparametric Distribution Free UCLs											
71	95% CLT UCL					127.6	95% Jackknife UCL					130.8
72	95% Standard Bootstrap UCL					125.9	95% Bootstrap-t UCL					179.3
73	95% Hall's Bootstrap UCL					375.6	95% Percentile Bootstrap UCL					128.3
74	95% BCA Bootstrap UCL					139.1						
75	90% Chebyshev(Mean, Sd) UCL					162.1	95% Chebyshev(Mean, Sd) UCL					196.7
76	97.5% Chebyshev(Mean, Sd) UCL					244.7	99% Chebyshev(Mean, Sd) UCL					339
77												
78	Suggested UCL to Use											
79	95% Student's-t UCL					130.8						
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
83	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
84	For additional insight the user may want to consult a statistician.											
85												
86												
87	Area A Lead (0-10')											
88												
89	General Statistics											
90	Total Number of Observations					14	Number of Distinct Observations					13
91							Number of Missing Observations					0
92	Minimum					31	Mean					585.3
93	Maximum					3000	Median					490
94	SD					751.3	Std. Error of Mean					200.8
95	Coefficient of Variation					1.284	Skewness					2.854
96												
97	Normal GOF Test											
98	Shapiro Wilk Test Statistic					0.646	Shapiro Wilk GOF Test					
99	5% Shapiro Wilk Critical Value					0.874	Data Not Normal at 5% Significance Level					
100	Lilliefors Test Statistic					0.312	Lilliefors GOF Test					

Area "A"

	A	B	C	D	E	F	G	H	I	J	K	L
101	5% Lilliefors Critical Value				0.237	Data Not Normal at 5% Significance Level						
102	Data Not Normal at 5% Significance Level											
103												
104	Assuming Normal Distribution											
105	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
106	95% Student's-t UCL				940.9	95% Adjusted-CLT UCL (Chen-1995)					1079	
107						95% Modified-t UCL (Johnson-1978)					966.4	
108												
109	Gamma GOF Test											
110	A-D Test Statistic				0.545	Anderson-Darling Gamma GOF Test						
111	5% A-D Critical Value				0.766	Detected data appear Gamma Distributed at 5% Significance Level						
112	K-S Test Statistic				0.17	Kolmogrov-Smirnov Gamma GOF Test						
113	5% K-S Critical Value				0.236	Detected data appear Gamma Distributed at 5% Significance Level						
114	Detected data appear Gamma Distributed at 5% Significance Level											
115												
116	Gamma Statistics											
117	k hat (MLE)				0.868	k star (bias corrected MLE)					0.73	
118	Theta hat (MLE)				673.9	Theta star (bias corrected MLE)					801.8	
119	nu hat (MLE)				24.32	nu star (bias corrected)					20.44	
120	MLE Mean (bias corrected)				585.3	MLE Sd (bias corrected)					685	
121						Approximate Chi Square Value (0.05)					11.18	
122	Adjusted Level of Significance				0.0312	Adjusted Chi Square Value					10.28	
123												
124	Assuming Gamma Distribution											
125	95% Approximate Gamma UCL (use when n>=50)				1070	95% Adjusted Gamma UCL (use when n<50)					1164	
126												
127	Lognormal GOF Test											
128	Shapiro Wilk Test Statistic				0.907	Shapiro Wilk Lognormal GOF Test						
129	5% Shapiro Wilk Critical Value				0.874	Data appear Lognormal at 5% Significance Level						
130	Lilliefors Test Statistic				0.223	Lilliefors Lognormal GOF Test						
131	5% Lilliefors Critical Value				0.237	Data appear Lognormal at 5% Significance Level						
132	Data appear Lognormal at 5% Significance Level											
133												
134	Lognormal Statistics											
135	Minimum of Logged Data				3.434	Mean of logged Data					5.696	
136	Maximum of Logged Data				8.006	SD of logged Data					1.337	
137												
138	Assuming Lognormal Distribution											
139	95% H-UCL				2556	90% Chebyshev (MVUE) UCL					1441	
140	95% Chebyshev (MVUE) UCL				1797	97.5% Chebyshev (MVUE) UCL					2291	
141	99% Chebyshev (MVUE) UCL				3262							
142												
143	Nonparametric Distribution Free UCL Statistics											
144	Data appear to follow a Discernible Distribution at 5% Significance Level											
145												
146	Nonparametric Distribution Free UCLs											
147	95% CLT UCL				915.6	95% Jackknife UCL					940.9	
148	95% Standard Bootstrap UCL				906	95% Bootstrap-t UCL					1368	
149	95% Hall's Bootstrap UCL				2378	95% Percentile Bootstrap UCL					942.4	
150	95% BCA Bootstrap UCL				1120							

Area "A"

	A	B	C	D	E	F	G	H	I	J	K	L
151	90% Chebyshev(Mean, Sd) UCL					1188	95% Chebyshev(Mean, Sd) UCL					1461
152	97.5% Chebyshev(Mean, Sd) UCL					1839	99% Chebyshev(Mean, Sd) UCL					2583
153												
154	Suggested UCL to Use											
155	95% Adjusted Gamma UCL					1164						
156												
157	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
158	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
159	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
160	For additional insight the user may want to consult a statistician.											
161												

Area "B"

	A	B	C	D	E	F	G	H	I	J	K	L
163	Area B Arsenic (0-10')											
164												
165	General Statistics											
166	Total Number of Observations				57		Number of Distinct Observations				45	
167					Number of Missing Observations				0			
168	Minimum				1		Mean				88.63	
169	Maximum				850		Median				19	
170	SD				180.6		Std. Error of Mean				23.92	
171	Coefficient of Variation				2.037		Skewness				2.968	
172												
173	Normal GOF Test											
174	Shapiro Wilk Test Statistic				0.514		Shapiro Wilk GOF Test					
175	5% Shapiro Wilk P Value				0		Data Not Normal at 5% Significance Level					
176	Lilliefors Test Statistic				0.355		Lilliefors GOF Test					
177	5% Lilliefors Critical Value				0.117		Data Not Normal at 5% Significance Level					
178	Data Not Normal at 5% Significance Level											
179												
180	Assuming Normal Distribution											
181	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
182	95% Student's-t UCL				128.6		95% Adjusted-CLT UCL (Chen-1995)				138	
183					95% Modified-t UCL (Johnson-1978)				130.2			
184												
185	Gamma GOF Test											
186	A-D Test Statistic				3.803		Anderson-Darling Gamma GOF Test					
187	5% A-D Critical Value				0.815		Data Not Gamma Distributed at 5% Significance Level					
188	K-S Test Statistic				0.22		Kolmogrov-Smirnov Gamma GOF Test					
189	5% K-S Critical Value				0.125		Data Not Gamma Distributed at 5% Significance Level					
190	Data Not Gamma Distributed at 5% Significance Level											
191												
192	Gamma Statistics											
193	k hat (MLE)				0.5		k star (bias corrected MLE)				0.486	
194	Theta hat (MLE)				177.1		Theta star (bias corrected MLE)				182.4	
195	nu hat (MLE)				57.05		nu star (bias corrected)				55.38	
196	MLE Mean (bias corrected)				88.63		MLE Sd (bias corrected)				127.2	
197					Approximate Chi Square Value (0.05)				39.28			
198	Adjusted Level of Significance				0.0458		Adjusted Chi Square Value				38.93	
199												
200	Assuming Gamma Distribution											
201	95% Approximate Gamma UCL (use when n>=50))				125		95% Adjusted Gamma UCL (use when n<50)				126.1	
202												
203	Lognormal GOF Test											
204	Shapiro Wilk Test Statistic				0.958		Shapiro Wilk Lognormal GOF Test					
205	5% Shapiro Wilk P Value				0.0957		Data appear Lognormal at 5% Significance Level					
206	Lilliefors Test Statistic				0.113		Lilliefors Lognormal GOF Test					
207	5% Lilliefors Critical Value				0.117		Data appear Lognormal at 5% Significance Level					
208	Data appear Lognormal at 5% Significance Level											
209												
210	Lognormal Statistics											
211	Minimum of Logged Data				0		Mean of logged Data				3.216	
212	Maximum of Logged Data				6.745		SD of logged Data				1.531	

Area "B"

	A	B	C	D	E	F	G	H	I	J	K	L				
213																
214	Assuming Lognormal Distribution															
215					95% H-UCL		152.5					90% Chebyshev (MVUE) UCL		140.4		
216					95% Chebyshev (MVUE) UCL				169.1					97.5% Chebyshev (MVUE) UCL		208.9
217					99% Chebyshev (MVUE) UCL				287.1							
218																
219	Nonparametric Distribution Free UCL Statistics															
220	Data appear to follow a Discernible Distribution at 5% Significance Level															
221																
222	Nonparametric Distribution Free UCLs															
223					95% CLT UCL		128					95% Jackknife UCL		128.6		
224					95% Standard Bootstrap UCL				128.1					95% Bootstrap-t UCL		146.2
225					95% Hall's Bootstrap UCL				132.6					95% Percentile Bootstrap UCL		129.9
226					95% BCA Bootstrap UCL				139.2							
227					90% Chebyshev(Mean, Sd) UCL				160.4					95% Chebyshev(Mean, Sd) UCL		192.9
228					97.5% Chebyshev(Mean, Sd) UCL				238					99% Chebyshev(Mean, Sd) UCL		326.6
229																
230	Suggested UCL to Use															
231					95% H-UCL		152.5									
232																
233	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.															
234	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)															
235	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.															
236	For additional insight the user may want to consult a statistician.															
237																
238	ProUCL computes and outputs H-statistic based UCLs for historical reasons only.															
239	H-statistic often results in unstable (both high and low) values of UCL95 as shown in examples in the Technical Guide.															
240	It is therefore recommended to avoid the use of H-statistic based 95% UCLs.															
241	Use of nonparametric methods are preferred to compute UCL95 for skewed data sets which do not follow a gamma distribution.															
242																
243																
244	Area B Lead (0-10')															
245																
246	General Statistics															
247	Total Number of Observations				57		Number of Distinct Observations				49					
248									Number of Missing Observations				0			
249					Minimum		5.1	Mean				998.4				
250					Maximum		17000	Median				180				
251					SD		2611	Std. Error of Mean				345.9				
252					Coefficient of Variation		2.616	Skewness				4.825				
253																
254	Normal GOF Test															
255	Shapiro Wilk Test Statistic				0.414		Shapiro Wilk GOF Test									
256	5% Shapiro Wilk P Value				0		Data Not Normal at 5% Significance Level									
257	Lilliefors Test Statistic				0.352		Lilliefors GOF Test									
258	5% Lilliefors Critical Value				0.117		Data Not Normal at 5% Significance Level									
259	Data Not Normal at 5% Significance Level															
260																
261	Assuming Normal Distribution															
262	95% Normal UCL						95% UCLs (Adjusted for Skewness)									

Area "B"

	A	B	C	D	E	F	G	H	I	J	K	L
263	95% Student's-t UCL				1577	95% Adjusted-CLT UCL (Chen-1995)					1804	
264						95% Modified-t UCL (Johnson-1978)					1614	
265												
266	Gamma GOF Test											
267	A-D Test Statistic				2.918	Anderson-Darling Gamma GOF Test						
268	5% A-D Critical Value				0.836	Data Not Gamma Distributed at 5% Significance Level						
269	K-S Test Statistic				0.198	Kolmogrov-Smirnoff Gamma GOF Test						
270	5% K-S Critical Value				0.126	Data Not Gamma Distributed at 5% Significance Level						
271	Data Not Gamma Distributed at 5% Significance Level											
272												
273	Gamma Statistics											
274	k hat (MLE)				0.416	k star (bias corrected MLE)					0.405	
275	Theta hat (MLE)				2402	Theta star (bias corrected MLE)					2463	
276	nu hat (MLE)				47.38	nu star (bias corrected)					46.22	
277	MLE Mean (bias corrected)				998.4	MLE Sd (bias corrected)					1568	
278						Approximate Chi Square Value (0.05)					31.62	
279	Adjusted Level of Significance				0.0458	Adjusted Chi Square Value					31.31	
280												
281	Assuming Gamma Distribution											
282	95% Approximate Gamma UCL (use when n>=50))				1459	95% Adjusted Gamma UCL (use when n<50)					1474	
283												
284	Lognormal GOF Test											
285	Shapiro Wilk Test Statistic				0.98	Shapiro Wilk Lognormal GOF Test						
286	5% Shapiro Wilk P Value				0.698	Data appear Lognormal at 5% Significance Level						
287	Lilliefors Test Statistic				0.0691	Lilliefors Lognormal GOF Test						
288	5% Lilliefors Critical Value				0.117	Data appear Lognormal at 5% Significance Level						
289	Data appear Lognormal at 5% Significance Level											
290												
291	Lognormal Statistics											
292	Minimum of Logged Data				1.629	Mean of logged Data					5.333	
293	Maximum of Logged Data				9.741	SD of logged Data					1.781	
294												
295	Assuming Lognormal Distribution											
296	95% H-UCL				2305	90% Chebyshev (MVUE) UCL					1899	
297	95% Chebyshev (MVUE) UCL				2331	97.5% Chebyshev (MVUE) UCL					2930	
298	99% Chebyshev (MVUE) UCL				4108							
299												
300	Nonparametric Distribution Free UCL Statistics											
301	Data appear to follow a Discernible Distribution at 5% Significance Level											
302												
303	Nonparametric Distribution Free UCLs											
304	95% CLT UCL				1567	95% Jackknife UCL					1577	
305	95% Standard Bootstrap UCL				1562	95% Bootstrap-t UCL					2324	
306	95% Hall's Bootstrap UCL				3681	95% Percentile Bootstrap UCL					1627	
307	95% BCA Bootstrap UCL				1941							
308	90% Chebyshev(Mean, Sd) UCL				2036	95% Chebyshev(Mean, Sd) UCL					2506	
309	97.5% Chebyshev(Mean, Sd) UCL				3158	99% Chebyshev(Mean, Sd) UCL					4440	
310												
311	Suggested UCL to Use											
312	95% H-UCL				2305							

Area "B"

	A	B	C	D	E	F	G	H	I	J	K	L
313												
314	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
315	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
316	and Singh and Singh (2003). However, simulation results will not cover all Real World data sets.											
317	For additional insight the user may want to consult a statistician.											
318												
319	ProUCL computes and outputs H-statistic based UCLs for historical reasons only.											
320	H-statistic often results in unstable (both high and low) values of UCL95 as shown in examples in the Technical Guide.											
321	It is therefore recommended to avoid the use of H-statistic based 95% UCLs.											
322	Use of nonparametric methods are preferred to compute UCL95 for skewed data sets which do not follow a gamma distribution.											
323												

Area "C"

	A	B	C	D	E	F	G	H	I	J	K	L
324												
325	Area C Arsenic (0-10')											
326												
327	General Statistics											
328	Total Number of Observations				37		Number of Distinct Observations				36	
329							Number of Missing Observations				0	
330	Minimum				1		Mean				45.4	
331	Maximum				310		Median				15	
332	SD				68.48		Std. Error of Mean				11.26	
333	Coefficient of Variation				1.509		Skewness				2.425	
334												
335	Normal GOF Test											
336	Shapiro Wilk Test Statistic				0.667		Shapiro Wilk GOF Test					
337	5% Shapiro Wilk Critical Value				0.936		Data Not Normal at 5% Significance Level					
338	Lilliefors Test Statistic				0.275		Lilliefors GOF Test					
339	5% Lilliefors Critical Value				0.146		Data Not Normal at 5% Significance Level					
340	Data Not Normal at 5% Significance Level											
341												
342	Assuming Normal Distribution											
343	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
344	95% Student's-t UCL				64.41		95% Adjusted-CLT UCL (Chen-1995)				68.71	
345							95% Modified-t UCL (Johnson-1978)				65.15	
346												
347	Gamma GOF Test											
348	A-D Test Statistic				1.052		Anderson-Darling Gamma GOF Test					
349	5% A-D Critical Value				0.799		Data Not Gamma Distributed at 5% Significance Level					
350	K-S Test Statistic				0.153		Kolmogrov-Smirnoff Gamma GOF Test					
351	5% K-S Critical Value				0.152		Data Not Gamma Distributed at 5% Significance Level					
352	Data Not Gamma Distributed at 5% Significance Level											
353												
354	Gamma Statistics											
355	k hat (MLE)				0.64		k star (bias corrected MLE)				0.606	
356	Theta hat (MLE)				70.96		Theta star (bias corrected MLE)				74.93	
357	nu hat (MLE)				47.34		nu star (bias corrected)				44.84	
358	MLE Mean (bias corrected)				45.4		MLE Sd (bias corrected)				58.32	
359							Approximate Chi Square Value (0.05)				30.48	
360	Adjusted Level of Significance				0.0431		Adjusted Chi Square Value				29.96	
361												
362	Assuming Gamma Distribution											
363	95% Approximate Gamma UCL (use when n>=50)				66.79		95% Adjusted Gamma UCL (use when n<50)				67.93	
364												
365	Lognormal GOF Test											
366	Shapiro Wilk Test Statistic				0.976		Shapiro Wilk Lognormal GOF Test					
367	5% Shapiro Wilk Critical Value				0.936		Data appear Lognormal at 5% Significance Level					
368	Lilliefors Test Statistic				0.0667		Lilliefors Lognormal GOF Test					
369	5% Lilliefors Critical Value				0.146		Data appear Lognormal at 5% Significance Level					
370	Data appear Lognormal at 5% Significance Level											
371												
372	Lognormal Statistics											
373	Minimum of Logged Data				0		Mean of logged Data				2.859	

Area "C"

	A	B	C	D	E	F	G	H	I	J	K	L
374	Maximum of Logged Data					5.737	SD of logged Data					1.451
375												
376	Assuming Lognormal Distribution											
377	95% H-UCL				102	90% Chebyshev (MVUE) UCL					90.6	
378	95% Chebyshev (MVUE) UCL				110.2	97.5% Chebyshev (MVUE) UCL					137.4	
379	99% Chebyshev (MVUE) UCL				190.9							
380												
381	Nonparametric Distribution Free UCL Statistics											
382	Data appear to follow a Discernible Distribution at 5% Significance Level											
383												
384	Nonparametric Distribution Free UCLs											
385	95% CLT UCL				63.92	95% Jackknife UCL					64.41	
386	95% Standard Bootstrap UCL				63.74	95% Bootstrap-t UCL					73.44	
387	95% Hall's Bootstrap UCL				77.6	95% Percentile Bootstrap UCL					64.89	
388	95% BCA Bootstrap UCL				69.19							
389	90% Chebyshev(Mean, Sd) UCL				79.17	95% Chebyshev(Mean, Sd) UCL					94.47	
390	97.5% Chebyshev(Mean, Sd) UCL				115.7	99% Chebyshev(Mean, Sd) UCL					157.4	
391												
392	Suggested UCL to Use											
393	95% H-UCL				102							
394												
395	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
396	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
397	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
398	For additional insight the user may want to consult a statistician.											
399												
400	ProUCL computes and outputs H-statistic based UCLs for historical reasons only.											
401	H-statistic often results in unstable (both high and low) values of UCL95 as shown in examples in the Technical Guide.											
402	It is therefore recommended to avoid the use of H-statistic based 95% UCLs.											
403	Use of nonparametric methods are preferred to compute UCL95 for skewed data sets which do not follow a gamma distribution.											
404												
405												
406	Area C Lead (0-10')											
407												
408	General Statistics											
409	Total Number of Observations				34	Number of Distinct Observations					30	
410						Number of Missing Observations					0	
411	Minimum				2.9	Mean					306	
412	Maximum				1800	Median					96	
413	SD				477.3	Std. Error of Mean					81.86	
414	Coefficient of Variation				1.56	Skewness					2.241	
415												
416	Normal GOF Test											
417	Shapiro Wilk Test Statistic				0.653	Shapiro Wilk GOF Test						
418	5% Shapiro Wilk Critical Value				0.933	Data Not Normal at 5% Significance Level						
419	Lilliefors Test Statistic				0.282	Lilliefors GOF Test						
420	5% Lilliefors Critical Value				0.152	Data Not Normal at 5% Significance Level						
421	Data Not Normal at 5% Significance Level											
422												
423	Assuming Normal Distribution											

Area "C"

	A	B	C	D	E	F	G	H	I	J	K	L
424	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
425	95% Student's-t UCL				444.6		95% Adjusted-CLT UCL (Chen-1995)				474.3	
426							95% Modified-t UCL (Johnson-1978)				449.8	
427												
428	Gamma GOF Test											
429	A-D Test Statistic				0.674		Anderson-Darling Gamma GOF Test					
430	5% A-D Critical Value				0.809		Detected data appear Gamma Distributed at 5% Significance Level					
431	K-S Test Statistic				0.126		Kolmogrov-Smirnoff Gamma GOF Test					
432	5% K-S Critical Value				0.159		Detected data appear Gamma Distributed at 5% Significance Level					
433	Detected data appear Gamma Distributed at 5% Significance Level											
434												
435	Gamma Statistics											
436	k hat (MLE)				0.524		k star (bias corrected MLE)				0.498	
437	Theta hat (MLE)				583.8		Theta star (bias corrected MLE)				615.1	
438	nu hat (MLE)				35.64		nu star (bias corrected)				33.83	
439	MLE Mean (bias corrected)				306		MLE Sd (bias corrected)				433.9	
440							Approximate Chi Square Value (0.05)				21.53	
441	Adjusted Level of Significance				0.0422		Adjusted Chi Square Value				21.04	
442												
443	Assuming Gamma Distribution											
444	95% Approximate Gamma UCL (use when n>=50)				480.9		95% Adjusted Gamma UCL (use when n<50)				492	
445												
446	Lognormal GOF Test											
447	Shapiro Wilk Test Statistic				0.969		Shapiro Wilk Lognormal GOF Test					
448	5% Shapiro Wilk Critical Value				0.933		Data appear Lognormal at 5% Significance Level					
449	Lilliefors Test Statistic				0.087		Lilliefors Lognormal GOF Test					
450	5% Lilliefors Critical Value				0.152		Data appear Lognormal at 5% Significance Level					
451	Data appear Lognormal at 5% Significance Level											
452												
453	Lognormal Statistics											
454	Minimum of Logged Data				1.065		Mean of logged Data				4.521	
455	Maximum of Logged Data				7.496		SD of logged Data				1.742	
456												
457	Assuming Lognormal Distribution											
458	95% H-UCL				1202		90% Chebyshev (MVUE) UCL				831	
459	95% Chebyshev (MVUE) UCL				1036		97.5% Chebyshev (MVUE) UCL				1320	
460	99% Chebyshev (MVUE) UCL				1878							
461												
462	Nonparametric Distribution Free UCL Statistics											
463	Data appear to follow a Discernible Distribution at 5% Significance Level											
464												
465	Nonparametric Distribution Free UCLs											
466	95% CLT UCL				440.7		95% Jackknife UCL				444.6	
467	95% Standard Bootstrap UCL				438.4		95% Bootstrap-t UCL				504.9	
468	95% Hall's Bootstrap UCL				487.1		95% Percentile Bootstrap UCL				449.4	
469	95% BCA Bootstrap UCL				482.5							
470	90% Chebyshev(Mean, Sd) UCL				551.6		95% Chebyshev(Mean, Sd) UCL				662.8	
471	97.5% Chebyshev(Mean, Sd) UCL				817.2		99% Chebyshev(Mean, Sd) UCL				1120	
472												
473	Suggested UCL to Use											

Area "C"

	A	B	C	D	E	F	G	H	I	J	K	L
474	95% Adjusted Gamma UCL					492						
475												
476	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
477	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
478	and Singh and Singh (2003). However, simulation results will not cover all Real World data sets.											
479	For additional insight the user may want to consult a statistician.											

APPENDIX F
Area Averaging
Calculations

A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets										
2											
3	User Selected Options										
4	Date/Time of Computation		ProUCL 5.12/14/2019 11:09:30 AM								
5	From File		WorkSheet.xls								
6	Full Precision		OFF								
7	Confidence Coefficient		95%								
8	Number of Bootstrap Operations		5000								
9											
10											
11	SS Arsenic										
12											
13	General Statistics										
14	Total Number of Observations			122		Number of Distinct Observations			71		
15						Number of Missing Observations			0		
16	Minimum			1		Mean			21.08		
17	Maximum			230		Median			15.5		
18	SD			25.63		Std. Error of Mean			2.321		
19	Coefficient of Variation			1.216		Skewness			5.028		
20											
21	Normal GOF Test										
22	Shapiro Wilk Test Statistic			0.617		Shapiro Wilk GOF Test					
23	5% Shapiro Wilk P Value			0		Data Not Normal at 5% Significance Level					
24	Lilliefors Test Statistic			0.217		Lilliefors GOF Test					
25	5% Lilliefors Critical Value			0.0806		Data Not Normal at 5% Significance Level					
26	Data Not Normal at 5% Significance Level										
27											
28	Assuming Normal Distribution										
29	95% Normal UCL					95% UCLs (Adjusted for Skewness)					
30	95% Student's-t UCL			24.93		95% Adjusted-CLT UCL (Chen-1995)			26.03		
31						95% Modified-t UCL (Johnson-1978)			25.11		
32											
33	Gamma GOF Test										
34	A-D Test Statistic			0.801		Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value			0.777		Data Not Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic			0.0734		Kolmogorov-Smirnov Gamma GOF Test					
37	5% K-S Critical Value			0.0858		Detected data appear Gamma Distributed at 5% Significance Level					
38	Detected data follow Appr. Gamma Distribution at 5% Significance Level										
39											
40	Gamma Statistics										
41	k hat (MLE)			1.248		k star (bias corrected MLE)			1.223		
42	Theta hat (MLE)			16.89		Theta star (bias corrected MLE)			17.24		
43	nu hat (MLE)			304.5		nu star (bias corrected)			298.4		
44	MLE Mean (bias corrected)			21.08		MLE Sd (bias corrected)			19.07		
45						Approximate Chi Square Value (0.05)			259.4		
46	Adjusted Level of Significance			0.048		Adjusted Chi Square Value			258.9		
47											
48	Assuming Gamma Distribution										
49	95% Approximate Gamma UCL (use when n>=50)			24.25		95% Adjusted Gamma UCL (use when n<50)			24.29		
50											

	A	B	C	D	E	F	G	H	I	J	K	L		
51	Lognormal GOF Test													
52	Shapiro Wilk Test Statistic				0.977		Shapiro Wilk Lognormal GOF Test							
53	5% Shapiro Wilk P Value				0.295		Data appear Lognormal at 5% Significance Level							
54	Lilliefors Test Statistic				0.0938		Lilliefors Lognormal GOF Test							
55	5% Lilliefors Critical Value				0.0806		Data Not Lognormal at 5% Significance Level							
56	Data appear Approximate Lognormal at 5% Significance Level													
57														
58	Lognormal Statistics													
59	Minimum of Logged Data				0		Mean of logged Data				2.597			
60	Maximum of Logged Data				5.438		SD of logged Data				0.99			
61														
62	Assuming Lognormal Distribution													
63	95% H-UCL				26.65		90% Chebyshev (MVUE) UCL				28.8			
64	95% Chebyshev (MVUE) UCL				31.99		97.5% Chebyshev (MVUE) UCL				36.4			
65	99% Chebyshev (MVUE) UCL				45.08									
66														
67	Nonparametric Distribution Free UCL Statistics													
68	Data appear to follow a Discernible Distribution at 5% Significance Level													
69														
70	Nonparametric Distribution Free UCLs													
71	95% CLT UCL				24.9		95% Jackknife UCL				24.93			
72	95% Standard Bootstrap UCL				24.87		95% Bootstrap-t UCL				26.63			
73	95% Hall's Bootstrap UCL				33.22		95% Percentile Bootstrap UCL				25.16			
74	95% BCA Bootstrap UCL				26.27									
75	90% Chebyshev(Mean, Sd) UCL				28.04		95% Chebyshev(Mean, Sd) UCL				31.2			
76	97.5% Chebyshev(Mean, Sd) UCL				35.58		99% Chebyshev(Mean, Sd) UCL				44.17			
77														
78	Suggested UCL to Use													
79	95% Approximate Gamma UCL				24.25									
80														
81	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test													
82	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL													
83														
84	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.													
85	Recommendations are based upon data size, data distribution, and skewness.													
86	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).													
87	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.													
88														

	A	B	C	D	E	F	G	H	I	J	K	L
89												
90	SS Lead											
91												
92	General Statistics											
93	Total Number of Observations				119		Number of Distinct Observations				75	
94							Number of Missing Observations				0	
95	Minimum				3.2		Mean				226.8	
96	Maximum				1500		Median				160	
97	SD				227.2		Std. Error of Mean				20.83	
98	Coefficient of Variation				1.002		Skewness				2.208	
99												
100	Normal GOF Test											
101	Shapiro Wilk Test Statistic				0.813		Shapiro Wilk GOF Test					
102	5% Shapiro Wilk P Value				0		Data Not Normal at 5% Significance Level					
103	Lilliefors Test Statistic				0.175		Lilliefors GOF Test					
104	5% Lilliefors Critical Value				0.0816		Data Not Normal at 5% Significance Level					
105	Data Not Normal at 5% Significance Level											
106												
107	Assuming Normal Distribution											
108	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
109	95% Student's-t UCL				261.3		95% Adjusted-CLT UCL (Chen-1995)				265.5	
110							95% Modified-t UCL (Johnson-1978)				262	
111												
112	Gamma GOF Test											
113	A-D Test Statistic				0.447		Anderson-Darling Gamma GOF Test					
114	5% A-D Critical Value				0.784		Detected data appear Gamma Distributed at 5% Significance Level					
115	K-S Test Statistic				0.0669		Kolmogorov-Smirnov Gamma GOF Test					
116	5% K-S Critical Value				0.0871		Detected data appear Gamma Distributed at 5% Significance Level					
117	Detected data appear Gamma Distributed at 5% Significance Level											
118												
119	Gamma Statistics											
120	k hat (MLE)				0.992		k star (bias corrected MLE)				0.972	
121	Theta hat (MLE)				228.6		Theta star (bias corrected MLE)				233.2	
122	nu hat (MLE)				236.1		nu star (bias corrected)				231.4	
123	MLE Mean (bias corrected)				226.8		MLE Sd (bias corrected)				230	
124							Approximate Chi Square Value (0.05)				197.2	
125	Adjusted Level of Significance				0.048		Adjusted Chi Square Value				196.8	
126												
127	Assuming Gamma Distribution											
128	95% Approximate Gamma UCL (use when n>=50)				266.1		95% Adjusted Gamma UCL (use when n<50)				266.6	
129												
130	Lognormal GOF Test											
131	Shapiro Wilk Test Statistic				0.917		Shapiro Wilk Lognormal GOF Test					
132	5% Shapiro Wilk P Value				2.3186E-8		Data Not Lognormal at 5% Significance Level					
133	Lilliefors Test Statistic				0.136		Lilliefors Lognormal GOF Test					
134	5% Lilliefors Critical Value				0.0816		Data Not Lognormal at 5% Significance Level					
135	Data Not Lognormal at 5% Significance Level											
136												
137	Lognormal Statistics											
138	Minimum of Logged Data				1.163		Mean of logged Data				4.841	
139	Maximum of Logged Data				7.313		SD of logged Data				1.297	
140												

	A	B	C	D	E	F	G	H	I	J	K	L
141	Assuming Lognormal Distribution											
142	95% H-UCL				396.6		90% Chebyshev (MVUE) UCL				425.9	
143	95% Chebyshev (MVUE) UCL				487.5		97.5% Chebyshev (MVUE) UCL				572.9	
144	99% Chebyshev (MVUE) UCL				740.9							
145												
146	Nonparametric Distribution Free UCL Statistics											
147	Data appear to follow a Discernible Distribution at 5% Significance Level											
148												
149	Nonparametric Distribution Free UCLs											
150	95% CLT UCL				261		95% Jackknife UCL				261.3	
151	95% Standard Bootstrap UCL				261.4		95% Bootstrap-t UCL				266.6	
152	95% Hall's Bootstrap UCL				268.4		95% Percentile Bootstrap UCL				262.7	
153	95% BCA Bootstrap UCL				266.7							
154	90% Chebyshev(Mean, Sd) UCL				289.3		95% Chebyshev(Mean, Sd) UCL				317.6	
155	97.5% Chebyshev(Mean, Sd) UCL				356.9		99% Chebyshev(Mean, Sd) UCL				434	
156												
157	Suggested UCL to Use											
158	95% Approximate Gamma UCL				266.1							
159												
160	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
161	Recommendations are based upon data size, data distribution, and skewness.											
162	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
163	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
164												

ATTACHMENT A
Groundwater
Monitoring and
Maintenance Plan

**Groundwater Monitoring and
Maintenance Plan**
Colonial Terminals - Plant 2
Savannah, Georgia

February 2019



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Figure

Figure 1: Groundwater Monitoring Well Locations

ACRONYMS AND ABBREVIATIONS

EDD	Electronic Data Deliverable
GPS	Global Positioning System
ml	milliliter
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDB	Passive Diffusion Bag
USEPA	United States Environmental Protection Agency
WWTP	Wastewater Treatment Plant
VOCs	Volatile Organic Compounds

1. INTRODUCTION

This Groundwater Monitoring and Maintenance Plan has been prepared in support of the Final Compliance Status Report for the Colonial Terminals Plant 2 site in Savannah, Georgia (dated February 28, 2019).

1.1 Site Description

The approximately 34.6-acre site is located along the Savannah River, near downtown Savannah. The site is developed with an approximately 60,000-square foot warehouse, approximately 50 ASTs, truck loading areas, a fueling station, and a loading dock for barges along the Savannah River. The ASTs are located within earthen dikes or concrete holding tanks. Exterior areas of the site consist of gravel-covered roads and parking areas, rail spurs, earthen-bermed tank farms, and the concrete-paved loading dock along the Savannah River. The site is bordered to the north by the Savannah River, to the west by the unlisted portions of the Colonial property, and by industrial properties to the south and east. The site is accessed from West Lathrop Avenue at the southwest site boundary. Surface water at the site generally travels via sheet flow or by storm water ditches towards the Savannah River.

1.2 Site Stratigraphy

Based on historical site assessment activities, the site geology from land surface to approximately 2 feet below ground surface (ft bgs) consists of sequences of sands, which are underlain by stiff sandy clays that extend to approximately 8 to 10 ft bgs. Clayey sands with clay stringers are present from approximately 10 to 34 ft bgs, below which clay and silt is present to approximately 80 ft bgs. Due to the proximity of the site to the Savannah River and Atlantic Ocean, the surficial/shallow groundwater at the site is influenced by tidal activity, and the depth to groundwater at the site typically ranges from approximately 3 to 12 ft bgs. Additionally, the shallow groundwater at the site has a high saline content due to tidal influence and, as such, the groundwater in the shallow surficial aquifer is not considered to be potable.

2. GROUNDWATER SAMPLING AND ANALYSIS

2.1 Groundwater Sampling Objectives

This groundwater sampling program is designed to provide data of sufficient quality and quantity for use in the monitoring of groundwater conditions at the site. The table below presents the wells that are to be sampled, partial well construction details, sampling frequency and analyte list. The monitoring well locations are shown on **Figure 1**.

Well ID	Diameter (inch)	Depth (ft-bgs)	Frequency	Analytes
MW-9D	2	31.2	Every 2 years	Chlorinated VOCs
MW-11R	2	21	Every 2 years	Chlorinated VOCs
MW-12R	2	18.8	Every 2 years	Chlorinated VOCs
MW-18	2	19	Every 2 years	Chlorinated VOCs
MW-22	2	14	Every 2 years	Chlorinated VOCs
MW-24	2	14.5	Every 2 years	Chlorinated VOCs
MW-26	2	14.2	Every 2 years	Chlorinated VOCs
MW-30	2	15	Every 2 years	Chlorinated VOCs
MW-34	2	16	Every 2 years	Chlorinated VOCs
MW-37	2	15	Every 2 years	Chlorinated VOCs and Methanol

2.2 Groundwater Sampling Methods

The groundwater sampling methods will follow USEPA Region 4 Science and Ecosystem Support Division (SESD) standard methods and operating procedures, specifically SESDPROC-301-R4, dated April 26, 2017 (USEPA, 2017). Furthermore, groundwater samples will be collected using the following methods:

The wells will be purged and sampled in accordance with USEPA Region 4 SESD guidance. Specifically, the wells will be purged using low flow sampling techniques or with a dedicated, disposable bailer. When purging, samples will be collected after groundwater parameters have stabilized (i.e., pH and specific conductance remained constant within 0.1 Standard Unit and ± 5 percent, respectively, over three successive readings). The groundwater samples will be placed in clean, appropriately preserved, laboratory-supplied containers.

The groundwater samples will be transported to a NELAP-accredited analytical laboratory approved by the State of Georgia under standard chain-of-custody procedures for analysis. The analytical methods used will be based on the most recent edition of *Test Methods for Evaluating Solid Waste Physical/Chemical Methods* (USEPA, SW-846).

2.3 Quality Control

The following quality control methods will help ensure that the sample results are valid and meet the stated data quality objectives.

2.3.1 General Field Procedures

The samples will be appropriately labeled and stored in a cooler with ice immediately upon collection to decrease volatilization of VOCs and to reduce spontaneous chemical reactions that may alter constituent concentrations. The samples will remain in the presence of a project representative until transportation to the laboratory occurs. A completed chain-of-custody record will be sealed into each sample cooler to maintain a complete record of personnel that have had custody of the samples, and the coolers will be sealed with tape and custody seals. The samples will be delivered to the laboratory either on the day of collection or the following day.

2.3.2 Quality Control Samples Collected

One matrix spike/matrix spike duplicate (MS/MSD) sample will be collected for each 20 samples of groundwater collected during the investigative field activities. Matrix spike/matrix spike duplicate samples are prepared by the laboratory by adding known quantities of one or more target analytes to a sample prior to extraction and analysis. Comparison of the spiked sample to the original (un-spiked) sample provides information about the suitability of an analysis for that sample matrix, which may be particularly important in sediment analysis. Very high or very low percent recovery of the spiked analyte(s) may indicate that alternate extraction or analysis methods may be more useful, as the components of the matrix are interfering with the analysis.

One duplicate sample will be collected for every 20 groundwater samples collected. Duplicate samples are used to determine the repeatability (precision) of both the sampling process and the analytical process. Two samples will be collected from the same location, at the same time, and in the same way. Samples will be placed in two separate sample containers and will be shipped to the laboratory such that the sampling station of the duplicate is unknown to the laboratory. Differences between the two chemical analyses will be compared.

One trip blank will be placed in each cooler shipped to the laboratory containing VOC samples. Trip blanks are used to determine if volatile organic compounds are being absorbed by the samples from any sources at the Site, during shipping, or from the packing materials. The trip blank vials are laboratory prepared and filled with laboratory grade deionized water. They are shipped to the laboratory in the same cooler as the samples for VOCs and analyzed only for VOCs.

One temperature blank will be placed in each cooler shipped to the laboratory. Temperature blanks are used to determine if the samples in the cooler are maintained at the appropriate temperature. The temperature blank vials are generally provided by the laboratory and are only analyzed for temperature.

2.4 Decontamination of Field Equipment

Sampling methods and equipment will be chosen to minimize decontamination requirements and the possibility of cross contamination. Equipment or supplies which cannot be effectively decontaminated will be disposed of after sampling each location. Equipment will be cleaned at the Site prior to use, between sampling locations, and prior to transport from the site. The decontamination procedure of equipment will be as follows:

- Clean water rinse immediately after use;
- Clean with phosphate-free detergent and scrub with brushes (Alconox, Liquinox, or equivalent will be used);
- Clean water rinse;
- Distilled water rinse; and,
- Air dry.

2.5 Handling of Investigation Derived Waste

Water generated from groundwater sampling activities (i.e., purge water and decontamination water) will be placed in a storage container and appropriately disposed of following completion of the groundwater sampling activities.

3. DATA MANAGEMENT

The data recording, review, and evaluation procedures described in this section will ensure that complete documentation is maintained, transcription and data reduction errors are minimized, and data are reviewed for accuracy.

Data management protocols have been established to track samples and results. Data records generated during field activities include field sampling forms, logbooks, and analytical chain-of-custody records. Logbooks and forms will be scanned and saved in the electronic project file record; hard copies of field data will be saved in the project files maintained for a period of at least three years.

The laboratory will provide an electronic data deliverable (EDD) for all analytical reports. The EDD will be in the format required for the project environmental database and will contain the pertinent sample information needed to perform electronic data evaluation. Electronic copies of laboratory reports in portable document format (PDF) will also be provided by the laboratory and will be saved in the electronic project records folder.

Laboratory EDDs will be uploaded upon receipt into an electronic database by the data manager. The data package will be reviewed to verify completeness and that the EDD matches the hard copy report. The analytical report will be assessed for compliance with the chain-of-custody request, laboratory task order, and this Sampling and Analysis Plan.

4. REPORTING

The groundwater monitoring data will be submitted to Georgia Environmental Protection Division within 60 days of the completion of the groundwater sampling events. The reports shall include tables presenting groundwater monitoring frequency, water level measurements for the current monitoring period, current groundwater analytical data for the monitoring period, and historical groundwater analytical data. The figures shall include site layout, potentiometric surface maps, distribution of detected constituents. The report appendices will include laboratory analytical reports, well purging and sampling forms, well inspection forms, and time series graphs for each well. Reports will discuss the findings of the report including documentation for any deviations from the approved groundwater monitoring plan and rationale for the deviation, as well as recommendations for further work.

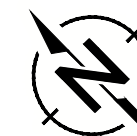
5. REFERENCES

USEPA, 2017. USEPA Region 4 Science and Ecosystem Support Division Athens, Georgia. Standard Methods and Operating Procedures, Groundwater Sampling, SESDPROC-301-R4, April 26, 2017.


USEPA, SW-846. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods.

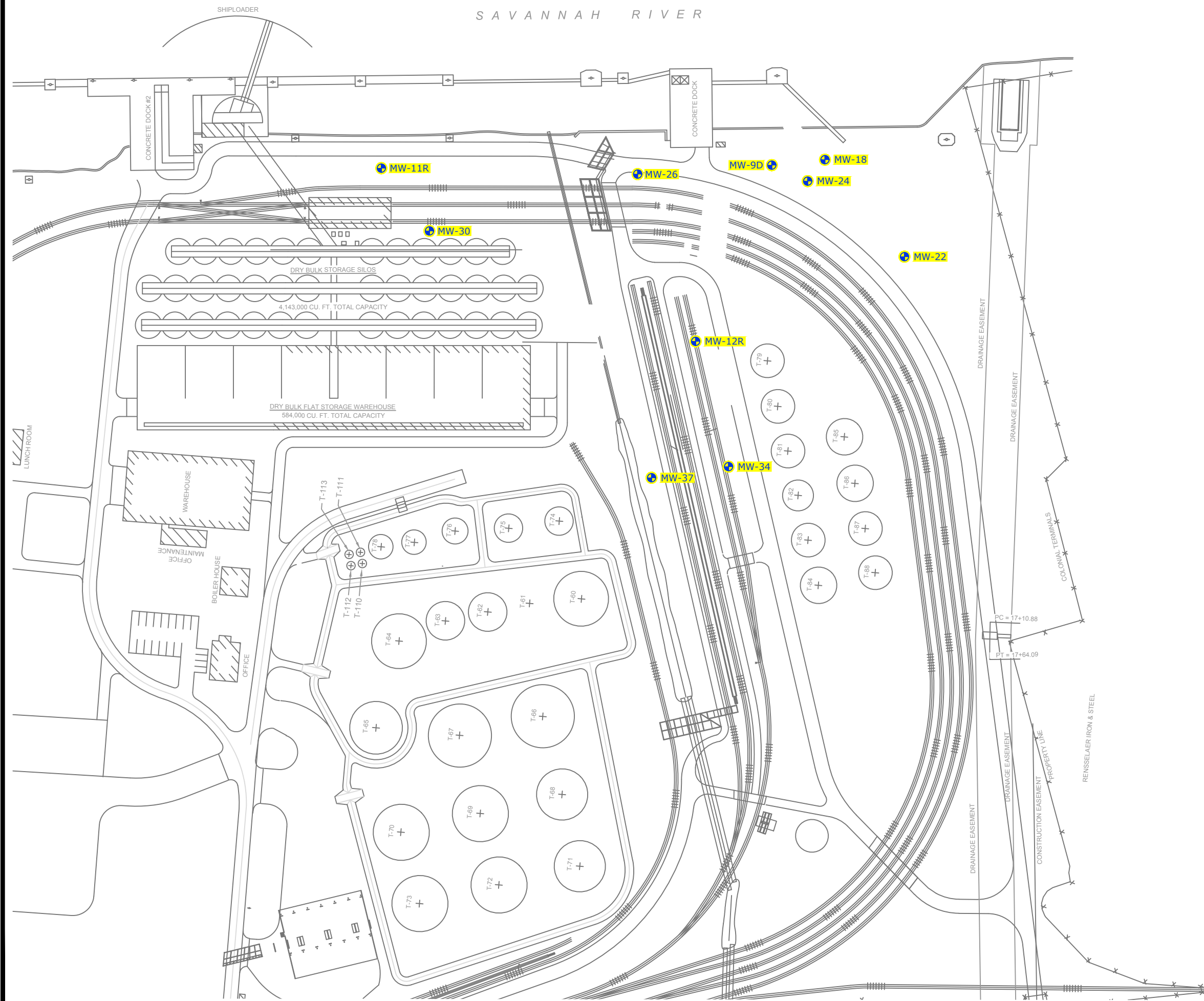
Figure

SAVANNAH RIVER



LEGEND

 MONITORING AND MAINTENANCE PLAN WELL



**GROUNDWATER
MONITORING WELL LOCATIONS
MONITORING AND MAINTENANCE PLAN**
COLONIAL TERMINALS, INC.
373 N. LATHROP AVENUE
SAVANNAH, GEORGIA



FIGURE
1

DRAFTED BY: APR

DATE: 7/16/18

1690007923

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Final Compliance Status Report
Colonial Terminals, Plant #2
Savannah Georgia

ATTACHMENT B
Soil Management
Plan

SOIL MANAGEMENT PLAN

COLONIAL TERMINALS – PLANT 2 SAVANNAH, GEORGIA

February 2019

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FIGURE

Figure 1: Tax Parcel Map and Subsurface Soil RRS Categories

ACRONYMS AND ABBREVIATIONS

EH&S	Environment, Health, and Safety
HASP	Health and Safety Plan
HSRA	Hazardous Site Response Act
OSHA	Occupational Safety and Health Administration
PPE	Personal Protective Equipment
RCRA	Resource Conservation and Recovery Act
SMP	Soil Management Plan
VOCs	volatile organic compounds
USCS	Unified Soil Classification System

1. INTRODUCTION

This Soil Management Plan has been prepared in support of the Final Compliance Status Report for the Colonial Terminals Plant 2 site in Savannah, Georgia (dated February 28, 2019).

1.1 Site Description

The approximately 34.6-acre site is located along the Savannah River, near downtown Savannah. The site is developed with an approximately 60,000-square foot warehouse, approximately 50 ASTs, truck loading areas, a fueling station, and a loading dock for barges along the Savannah River. The ASTs are located within earthen dikes or concrete holding tanks. Exterior areas of the site consist of gravel-covered roads and parking areas, rail spurs, earthen-bermed tank farms, and the concrete-paved loading dock along the Savannah River. The site is bordered to the north by the Savannah River, to the west by the unlisted portions of the Colonial property, and by industrial properties to the south and east. The site is accessed from West Lathrop Avenue at the southwest site boundary. Surface water at the site generally travels via sheet flow or by storm water ditches towards the Savannah River.

1.2 Site Stratigraphy

Based on historical site assessment activities, the site geology from land surface to approximately 2 feet below ground surface (ft bgs) consists of sequences of sands, which are underlain by stiff sandy clays that extend to approximately 8 to 10 ft bgs. Clayey sands with clay stringers are present from approximately 10 to 34 ft bgs, below which clay and silt is present to approximately 80 ft bgs. Due to the proximity of the site to the Savannah River and Atlantic Ocean, the surficial/shallow groundwater at the site is influenced by tidal activity, and the depth to groundwater at the site typically ranges from approximately 3 to 12 ft bgs.

2. SOIL MANAGEMENT AREAS

As presented in the Final Compliance Status Report, surface soil at the site meets non-residential risk reduction standards (RRS); therefore, no special precautions are required when disturbing the upper 2 feet of soil as long as the property remains in non-residential use. However, the subsurface soil at the site is categorized as two distinct areas. The two parcels on the northwest side of the site (Parcels 1-0549-01-002A and 1-0550-02-004) are categorized as meeting Type 4 RRS, and the parcel on the southeast side of the site (Parcel 1-0549-01-002) is categorized as not meeting Type 4 RRS (see **Figure 1**). Based on this information, and the risk evaluation conducted in the Final Compliance Status Report the following must be followed when the soil deeper than 2 feet bgs is encountered or expected to be encountered:

- When performing soil disturbance activities on subsurface soil in Parcels 1-0549-01-002A and 1-0550-02-004, workers must limit their exposure to the subsurface soil to no more than 90 days per year on a rolling basis.
- When performing soil disturbance activities on subsurface soil in Parcel 1-0549-01-002, the procedures described in Sections 3 through 6 of this Soil Management Plan must be followed.

3. PERSONAL PROTECTIVE EQUIPMENT

3.1 Project-Specific Health and Safety Plans

The available data indicates that soil at the site are known to be impacted with metals. Therefore, prior to conducting any activities that will disturb soil at the site, including installing wells, a project-specific Health & Safety Plan (HASP) will be written. The HASP will present the site- and project-specific procedures that must be followed by all employees and any other personnel during soil disturbance activities. The HASP will also describe the personal protective equipment (PPE) that will need to be used during soil disturbance work.

3.2 Hazard Assessment

Physical Hazards

There is always a risk of physical injury resulting from activities involved with equipment operations, as well as common-place slips, trips, and falls. All personnel should be aware of the presence of these hazards and take steps to avoid them. In particular, precautions should be taken to avoid hazards from overhead and underground utilities. A comprehensive list of physical hazards and preventive measures must be included in each project-specific HASP. If underground obstructions are suspected at the site, then pre-project clearance will be required. Any equipment on site must not be within 20 feet of overhead power lines that transmit less than 350 kilovolt (kV), and must not be within 50 feet overhead powerlines that transmit greater than 350 kV¹. Use of steel-toed boots, safety glasses, and hard hats will be required when working in the vicinity of heavy equipment. Before and after each shift (or at the beginning and end of each work day) the work area and areas in proximity to the work area should be cleared of objects that could present a slip/trip hazard to the degree practical. Personnel should be made aware of the fact that the use of protective equipment can impair visibility, hearing, and manual dexterity.

Chemical Hazards

Historically, metals have been detected in the subsurface soil at the Colonial property that exceed residential RRS. The potential for the ingestion of chemicals (or media that contain chemicals) during soil disturbance activities will be controlled by prohibiting any eating, smoking, or drinking in the work zone, and by requiring all field personnel to remove soil particles adhered to their clothing and boots prior to leaving the work zone (or property if a designated work zone is not established for a particular activity). In addition, potential hazards associated with dermal contact will be minimized by using appropriate PPE; specifically, Level D PPE and/or Modified Level D PPE (defined below) will be used by personnel involved in conducting soil disturbance activities. Further, if unexpected vapors are identified during the excavation activities (e.g., due to proximity to groundwater impacts), the activities will be suspended, workers will leave the impacted work area, and the contractor will contact a designated Colonial representative for further instructions. Activities may resume once the concerns have been addressed. A comprehensive list of chemical hazards will be included in project-specific HASPs. The following table identifies OSHA 8-hour permissible exposure limits (PELs) for the volatile organic compounds (VOCs) that have been detected in the groundwater at the site:

¹ OSHA 1926.1409 Subpart CC.

Constituent	PEL ¹ (ppm)	Corrective Action ²
Vinyl Chloride	1	If a value of 1.0 or more above background is measured with a PID, then shut down motorized equipment and screen with constituent-specific colorimetric tubes. If any of the measurements using the colorimetric tubes exceed the PEL, halt work and notify the EHS Manager.
Tetrachloroethene	100	
Trichloroethene	100	
cis- or trans 1,2-Dichloroethene	200	

1. OSHA Permissible Exposure limit (PEL) from z-tables of 29 CFR 1926.55 Appendix A and 29 CFR 1910.1017 (incorporated by reference from 29 CFR 1926.1117), Accessed online at www.osha.gov.
2. Based on conservatively assuming the VOC being measured is vinyl chloride until more precise information is developed.

3.3 Safety Equipment Requirements

It is anticipated that Level D will be the highest personal protective level required to complete most field activities. However, if site conditions make it necessary to upgrade the level of protection, the contractor shall suspend work and contact the EH&S Manager or designated representative for guidance. Contractors shall furnish employees with all necessary safety equipment. Listed below is an itemized list of safety equipment required for Level D and Modified Level D PPE.

Level D PPE

General site work:

- Boots/shoes with steel-toes, and a shank
- Safety glasses with side shields, chemical splash goggles, or face shield
- Hard hat
- Gloves (standard work gloves when working with tools or heavy equipment and/or latex/nitrile gloves when handling soil)

Modified Level D PPE

For splash hazard work areas (i.e., working in excavations containing standing water and any other conditions for which the Colonial EH&S Manager or designated representative considers such protection is needed), the following shall also be worn in addition to the Level D PPE listed above:

- Poly-coated Tyvek coveralls
- Waterproof boots

4. FIELD METHODS AND PROCEDURES

The general procedures that will be followed during soil disturbance activities at the Colonial property are presented in the following subsections.

4.1 Pre-Soil Disturbance Activities

Prior to soil disturbance activities, project personnel and the appropriate personnel will meet to ensure that everyone understands the planned activities and the procedures described in this SMP. A site- and project-specific HASP will be prepared that, at a minimum, presents the chemicals that may be present, potential exposure routes and toxicological effects, and methods to avoid and/or minimize exposure. The HASP will be available onsite at all times when soil disturbing activities are occurring. All applicable permits will be obtained and utilities identified prior to conducting any activities at the site that require the soil to be disturbed.

4.2 Soil Disturbance Activities

Once the disturbance activities begin, the soil will be monitored for odors and stains. Colonial EH&S should be notified if odors or stains are observed or nuisance complaints are received. Dust will be controlled, if necessary, by wetting the soil in the area of removal.

4.2.1 Handling and Management of Excavated Soil

Soil that is excavated during site activities will be staged at a secure location on the Colonial Terminals property in a manner that prevents liquid infiltration, run off, and generation of fugitive dust (e.g., covered drums, covered roll-off containers, or enclosed on all side by plastic sheeting). Samples of such excavated soil will be collected and characterized for disposal based on the written requirements of the receiving facility(ies); the analyses will be conducted by State of Georgia approved laboratory. The samples will be collected in accordance with EPA Region 4 Science and Ecosystem Support Division Operating Procedure: Soil Sampling, Number SESDPROC-300-R3, dated 8-21-14 (SESD, 2014).

Once the soil has been characterized, Colonial or its contractor will arrange for transportation and disposal of the soil. The soil will be transported from the Colonial Terminals property no more than 90 days from the completion of the activities associated with the soil disturbance. Depending upon the waste determination of the displaced soil, the Operator may become a generator of Hazardous Waste and be subject to The Rules and Regulations of the State of Georgia 391-3-11-.08 *Standards Applicable to Generators of Hazardous Waste*, which incorporates 40 CFR Part 262 by reference

4.2.2 Handling and Management of Proposed Backfill Material

If necessary, disturbed areas will be backfilled with clean soil or fill material. To evaluate whether the proposed fill material is suitable for use at the site, one composite sample will be obtained from four locations equally spaced across the area of fill material to be used at the site. The samples will be collected in accordance with EPA Region 4 Science and Ecosystem Support Division Operating Procedure: Soil Sampling, Number SESDPROC-300-R3 (SESD, 2014). The samples will be analyzed for VOCs, SVOCs, and RCRA metals by USEPA Methods 8260B, 8270D and 6010C, respectively. The analytical results will be compared to the EPA residential regional screening levels (RSLs) for VOCs and SVOCs, and to Georgia-approved background values for metals. The backfill samples will be analyzed by a State of Georgia Environmental Protection Division-approved laboratory.

4.2.3 Groundwater Monitoring Well Installation

Any new wells installed at the site will be installed in accordance with EPA Region 4 Science and Ecosystem Support Division Guidance Document Design and Installation of Monitoring Wells, Number SESDGUID-101-R1 dated 1-29-13 (SESD, 2013). Any plan for the design, location and installation of any additional permanent monitoring wells will be submitted to EPD at least 30 days prior to installation.

4.2.4 Equipment Decontamination

All reusable equipment that will contact potentially contaminated soil or water will be decontaminated at the start of the project and prior to each reuse. The decontamination will be performed in accordance with EPA Region 4 Science and Ecosystem Support Division Operating Procedure: Field Equipment Cleaning and Decontamination, Number SESDPROC-205-R3, dated 12-18-15 (2015, SESD).

In general, the decontamination procedures will consist of:

- Non-phosphate detergent (i.e., Luminox) and tap water wash, using a brush if necessary.
- Tap-water rinse.
- Deionized/distilled water rinse.

Water generated from equipment decontamination activities will be placed in a storage container and appropriately disposed of following completion of the decontamination activities.

4.3 Post-Soil Disturbance Activities

After the soil excavation and related activities are complete, the documentation of the activities will be finalized in the log book, with the original kept by Colonial, and a copy maintained onsite. Information regarding the work conducted, including location of the activity, volume of material removed, volume of backfill material placed on site, number of samples collected, analytical parameters, health and safety protocols, and monitoring activities will be maintained in the log book.

The final laboratory analytical reports will be placed in the project files, along with the waste manifests, weight tickets, and final disposal reports.

5. CONTRACTOR REQUIREMENTS

All contractors performing work at the site that involve disturbing the soil must comply with the following procedures. Contractors not complying with these procedures will not be permitted to work at the site and may be financially responsible for correcting inappropriate soil management and/or disposal activities.

- Contractor is responsible for ensuring the safety of its workers during activities at the site. Contractors must comply with all appropriate regulations, orders, and permits while onsite including the following:
 - Occupational Safety and Health Administration (OSHA) Standards and Regulations, 29 CFR 1910 and 1926.
 - Resource Conservation and Recovery Act (RCRA) 40 CFR 261 and 264.
 - Facility Consent Order and Hazardous Waste Permit.
- Contractor must review this SMP before initiating work. Any questions involving the SMP should be directed to Colonial’s EH&S Manager, designated representative.
- Contractor’s site workers must have received OSHA training and hazard communication training appropriate for the types of chemicals that could be encountered in the soil. Note that, for this site, hazard communication training is required.
- Contractor must be properly trained to conduct field screening (e.g., use of a photoionization detector [PID] and other equipment described in the HASP). Any field observations must be maintained in a log that also describes the activity underway.
- Contractor must prepare and follow a site- and project-specific HASP that, at a minimum, presents the chemicals that may be present, potential exposure routes, and methods to avoid and/or minimize exposure. A copy of the HASP must be forwarded to the EH&S Manager or designated representative for review. The HASP must be available onsite at all times during the soil disturbance activities.
- Contractor must ensure that site workers use appropriate methods to handle and manage excavated soil. Soil suspected to be contaminated must be staged as discussed above for proper characterization.

6. DOCUMENTATION AND REPORTING

Documentation of soil disturbance activities at the site shall be recorded in a bound field logbook with consecutively numbered pages. All entries will use factual objective language, be legible, written in permanent ink, and signed by the individual making the entries. At a minimum, the following information will be recorded in the field logbook:

- General narrative recording daily activities
- Soil sample descriptions (Unified Soil Classification System)
- Site or sampling area sketch showing sample location, sample depths, and measured distances. The sampling area sketch will be scaled and the location of the sampling area will be depicted relative to a fixed structure.
- Field instrument readings (including location that the reading was obtained) and calibration
- Field observations and details related to analysis or integrity of samples (e.g., weather conditions, noticeable odors, soil staining, soil descriptions, soil colorations, etc.)
- Work start and stop times
- Summary of any meetings or discussions with contractors, regulatory agency representatives, or interested third parties
- Levels of PPE used

Upon completion of each soil disturbance activity, a summary report will be submitted to EPD. The report will be submitted within 30 days of completion of the work (including receipt of analytical data and waste manifests), and will include the following:

- A written summary of the work performed, documenting the performance of all procedures specified in Section 4.0 (Field Methods and Procedures), as well as documentation recorded in the log book as described above
- A description of each deviation from the approved SMP, and the reason for each occurrence
- Tabulated laboratory analytical data for all post-excavation samples, with a comparison of the data to the appropriate RRSs for metals)
- A discussion of findings
- Complete laboratory analytical reports for all samples collected, including chain of custody forms
- Waste manifests
- Photographic documentation, if available

7. REFERENCES

OSHA Permissible Exposure limit (PEL) from z-tables of 29 CFR 1926.55 Appendix A and 29 CFR 1910.1017 (incorporated by reference from 29 CFR 1926.1117)
<https://www.osha.gov/dsg/annotated-pels/tablez-1.html>

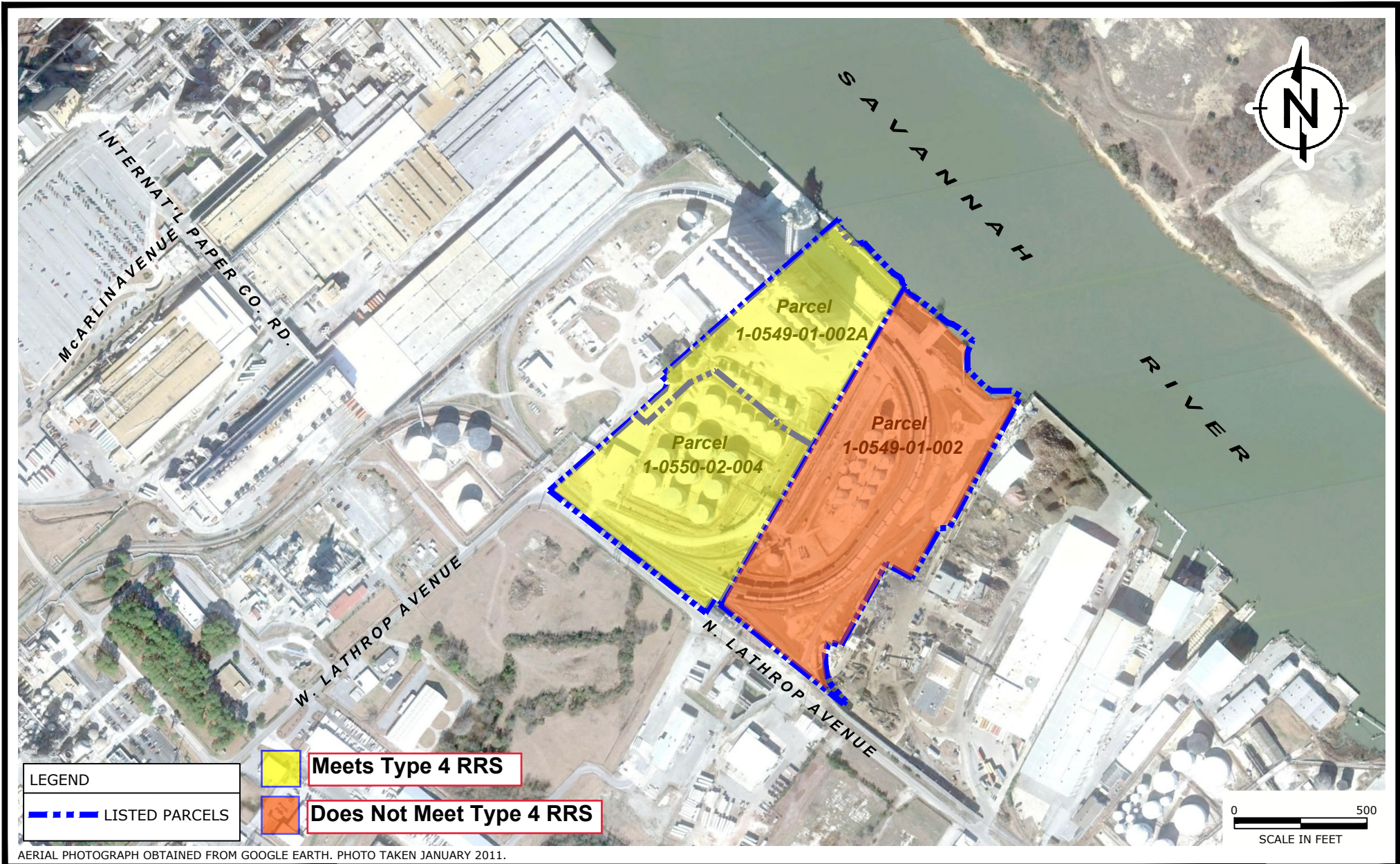
RAE Systems. 2011. Technical Note TN-186, MINIRAE 3000 and PPBRAE 3000 Pre-Programmed Compound Libraries. Accessed online:
http://www.raesystems.com/sites/default/files/content/resources/Technical-Note-186_MiniRAE-3000-%26-ppbRAE-3000-Pre-Programmed-Compound-Libraries_02-11.pdf. 10-23-17.

EPA Region 4 Science and Ecosystem Support Division (SESD) Guidance Document Design and Installation of Monitoring Wells, Number SESDGUID-101-R1 dated 1-29-13

EPA Region 4 Science and Ecosystem Support Division (SESD) Operating Procedure: Soil Sampling, Number SESDPROC-300-R3, dated 8-21-14.

EPA Region 4 Science and Ecosystem Support Division (SESD) Operating Procedure: Field Equipment Cleaning and Decontamination, Number SESDPROC-205-R3, dated 12-18-15

FIGURE



TAX PARCEL MAP AND SUBSURFACE SOIL RRS CATEGORIES
COLONIAL TERMINALS, INC.
373 NORTH LATHROP AVENUE SAVANNAH, GEORGIA

FIGURE
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